



200W



DC-DC Converters

Isolated single, dual & triple output

- <1W to 300W+

Point-of-Load

- 1A to 30A



Powering Innovation

About Murata Power Solutions

We are the #1 supplier of board mount power and among the top suppliers of overall power electronics. From 0.25W isolated converters to 2100W front-end power supplies, along with filtering and isolation solutions, our current offering exceeds 3,500 standard models developed in our design and manufacturing centers located in the US, Canada, England, Japan and China.

Murata's worldwide network of Technical Sales Managers, FAEs, Customer Support and industry-leading Distributors, reliably support the power requirements of local and global manufacturers of telecommunications equipment, data management systems, industrial controls, transportation electronics, energy systems, and more.

Our DC-DC Converters

This catalog provides specifications for our entire offering of:

Point-of-Load Converters

- DOSA compatible designs
- OKAMI, the new breed of DC/DCs

Isolated DC to DC Converter Products

- Single, dual, triple and quad output
- Power from 0.25 to 340 Watts; Currents from 0.02 to 80 Amps

Bricks

- DOSA compliant 1/32 to full size
- 1 x 1" and 2 x 2" encapsulated

To sum it all up for you, Murata Power Solutions delivers:

- ✓ Innovation and reliability
- ✓ The largest variety of industry-standard DC/DCs
- ✓ Modified-standards and custom design expertise

Your preferred power partner . . . delivering innovative solutions you can rely on . . . again and again.



Contents

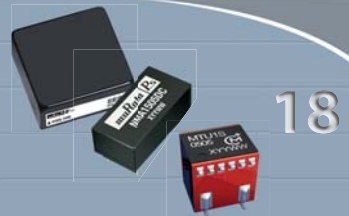
PoL Converters



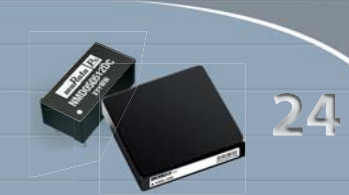
Isolated Single



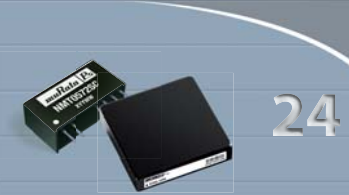
Isolated Dual/Bipolar



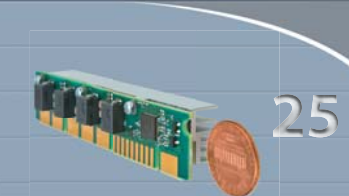
Isolated Dual/Asymmetric



Isolated Triple



VRM Processor Support



How to use this databook

Products are listed according to output voltage.

1 Find your **output voltage** from the product data tables.

– or –

2 Refer to **Quick Selection Guides** for

- **Output power** (isolated)
- **Output current** (PoLs)

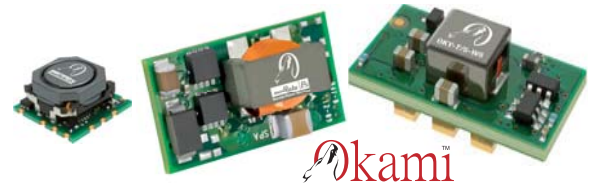
3 Choose the ideal product series for your application.

Visit murata-ps.com for data sheets and complete specifications.



Point-of-Load

Non-Isolated DC DC Converter Series



Murata Power Solutions offers more non-isolated, point-of-load (PoL) DC/DCs, in standard packages and pinouts, than any other company.

Our PoL output voltages range from 0.75 to 6V at current levels from 2 to 50A. Input voltages are centered around traditional 3, 5 and 12V levels, with some devices operating

from 7.5 to 40V. Standard packages include SMT and SIP models.

The newest Okami SMT and SIP models offer user programmable outputs (0.6-15.5V) while operating from wide-range inputs (2.4-5.5V, 2.9-14V, 4.5-14V, 6-14V, 8.3-14V, 9-32V, 16-40V, or 19-40V). For many applications, they can be genuine “one-size-fits-all” solutions.

PoLs may be powered from AC to DC converters and DC to DC regulators, among other design options. Also, many designers find them a quick, cost-effective solution when isolation is not required and in-house designs are too expensive and time consuming.

User programmable output voltages

Part Number* <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Output Characteristics			Input Voltage			Efficiency	Package				Package Dimensions						Datasheet Available at www.murata-ps.com				
	Rated Output Current	Rated Output Voltage	Total Output Power	Nom.	Min.	Max.		SM	TH	DIP	SIP	Inches			mm							
												L	W	H	L	W	H					
OKL-T/1-W12x-C	1A	0.9-5.5V	5W	12V	2.9V	14V	90%	•				0.49	0.18	0.49	12.4	4.57	12.4	OKL-T/1-W12				
OKR-T/1.5-W12-C	1.5A	0.591-6V	7.5W	12V	4.5V	14V	93%			•		0.41	0.24	0.40	10.4	6.1	10.16	OKR-T/1.5-W12				
OKL-T/3-W5x-C	3A	0.6-3.63V	9.9W	5V	2.4V	5.5V	95%	•				0.48	0.24	0.48	12.2	6.2	12.2	OKL-T/3-W5				
OKL-T/3-W12x-C		0.591-5.5V	15W	12V	4.5V	14V	93%	•				0.48	0.24	0.48	12.2	6.2	12.2	OKL-T/3-W12				
OKL-T/6-W5x-C	6A	0.6-3.3V	19.8W	5V	2.4V	5.5V	94%	•				0.48	0.28	0.48	12.2	7.2	12.2	OKL-T/6-W5				
OKL-T/6-W12x-C		0.591-5.5V	30W		4.5V			•				0.48	0.28	0.48	12.2	7.2	12.2	OKL-T/6-W12				
OKX-T/3-D12-C	3A	0.75-5.5V	15W	12V	8.3V	14V	93%			•		0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/3-D12				
OKY-T/3-D12x-C												•				0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-D12
OKX-T/5-D12-C	5A	0.75-5.5V	25W	12V	8.3V	14V	93%			•		0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/5-D12				
OKY-T/5-D12x-C												•				0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-D12
OKX-T/3-W5-C	3A	0.7525-3.63V	9.9W	5V	2.4V	5.5V	94%			•		0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/3-W5				
OKY-T/3-W5x-C											•				0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-W5	
OKX-T/5-W5-C	5A		16.5W									•				0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/5-W5
OKY-T/5-W5x-C												•				0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-W5
OKY-T/10-D12x-C	10A	0.7525-5.5V	50W	12V	8.3V	14V	95%	•				0.53	0.33	1.3	33	8.4	33	OKY-T/10, T/16-D12				
OKY-T/16-D12x-C	16A		80W							94%	•				0.53	0.33	1.3		33	8.4	33	
OKY-T/10-W5x-C	10A	0.7525-3.63V	33W	5V	2.4V	5.5V	95%	•				1.3	0.33	0.53	13.5	8.3	13.5	OKY-T/10, T/16-W5				
OKY-T/16-W5x-C	16A		52.8W							95%	•				1.3	0.33	0.53		13.5	8.3	13.5	
LSM2-T/30-D12R-C	30A	0.8-5V	125W		6V		94%	•				0.53	0.36	1.3	33	9.1	33	LSM2-T/30-D12				
OKX-T/10-D12x-C	10A	0.7525-5.5V	50W	12V	8.3V	14V	95%			•		0.5	0.37	2	50.8	9.4	50.8	OKX-T/10, T/16-D12				
OKX-T/16-D12x-C	16A		80W							94%	•				0.5	0.37	2		50.8	9.4	50.8	
OKX-T/10-W5x-C	10A	0.7525-3.63V	33W	5V	2.4V	5.5V	96%			•		2	0.5	0.37	9.4	12.7	9.4	OKX-T/10, T/16-W5				
OKX-T/16-W5x-C	16A		52.8W							95%				•		2	0.5		0.37	9.4	12.7	9.4
OKR-T/3-W12-C	3A	0.591-6V	15W	12V	4.5V	14V	93%			•		0.65	0.22	0.41	10.4	5.6	10.4	OKR-T/3-W12				
OKR-T/6-W12-C	6A		30W							96%	•				0.65	0.3	0.41	10.4	7.6	10.4	OKR-T/6-W12	
OKR-T/10-W12-C	10A		50W							92%			•		0.65	0.3	0.41	10.4	7.6	10.4	OKR-T/10-W12	
OKI-T/3-W32x-C	3A		0.7525-4.5V				13.5W	24V	9V	32	89%	•				0.82	0.34	0.47	11.9	8.5	11.9	OKI-T/3-W32
OKI-T/3-W40x-C		0.7525-5.5V	15W	16V	40V	88%	•					0.82	0.34	0.47	11.9	8.5	11.9	OKI-T/3-W40				
OKI-T/36W-W40x-C		5.021-15.5V	36W	19V	40V	95%	•					0.82	0.34	0.47	11.9	8.6	11.9	OKI-T/36W-W40				

*x = N (negative) or P (positive) polarity

OKI-78SR Series fixed output voltages

OKI-78SR3.3/1.5-W36-C	1.5A	3.3V	4.95W	24V	7V	36V	86%			•	0.65	0.3	0.41	16.5	7.62	10.4	OKI-78SR
OKI-78SR3.3/1.5-W36H-C													•	0.65	0.3	0.41	
OKI-78SR5/1.5-W36-C		5V	7.5W				91%			•	0.65	0.3	0.41	16.5	7.62	10.4	
OKI-78SR5/1.5-W36H-C													•	0.65	0.3	0.41	

Single Output

Isolated DC to DC Converter Series

Power from 0.25 to 300 Watts; currents from 0.02 to 80 Amps; voltages from 1.2 to 96 Volts; inputs from 3 to 75 Volts . . . Murata Power Solutions offers the broadest line of single-output, isolated DC/DC converters in the entire power industry . . . without a doubt.

Our low-power encapsulated products (mini SIPs, DIPs and SMDs) are among the smallest available. Many use contemporary ceramic-substrates and copper-lead-frame technologies to achieve their small size.

At the other extreme, our high-power 1/32, 1/16, 1/8, 1/4, and 1/2 bricks are open-frame assemblies using multi-layer, heavy-copper pc boards and planar magnetics. Their high efficiencies enable full-power operation to high ambient temperatures, and optional baseplates deliver the best thermal performance in the industry.

If you can't find the DC/DC power solution you need in the tables below, contact us, and we'll develop one for you.



Quick Selection Guide Listed by output power

Output Power	Output Voltages						Series
	3.3V	5V	6V	9V	12V	15V	
<1W							LME
							NMF
1-2W							MEE1
							MER1
							MEV1
							MTE1
							MTU1
							NKE
							NME
							NMJ
							NMR
							NMV
							NTE
							NTF
							PWR13XXC
2-3W							LP02U
							NDL
							MEJ2
							NMG
							NMK
3-4W							MEE3
							MEV3
6-10W							NCS6
							NDS6
							UWR 9.6W
							NPH10
10-15W							UWR 15W
							NPH15
15-18W							RUW15
							SPM15
							UEI15
							UEI25
18-25W							UHE 12-30W
							NPH25
25-35W							SPM25
							UCE
							UEI30
							ULS-30W
							ULT
							UWR 26-40W
35-50W							UCE
							UCQ
							UEI 50-60W
							UEE
							ULQ
50-75W							UWS
							UCE
							UCQ
							UEI 50-60W
							ULE
							ULQ
							ULS
75-100W							UVQ
							UWE
							UWS
							PAE
							UCE
							UCQ
							UEE
100-120W							ULQ
							ULS 100W
							UQQ
							UVQ
							UWE 100-120W
							UCE
120-240W							UCQ
							UVQ
							UWE 100-120W
							EMH
							HPQ 165W
							HPQ 182.6W
240-300W							PAQ
							RBE
							ULQ
							UWQ
300-450W							HPQ 300W
							PAH 350W
							PAH 450W
							PAH 450W
						RBQ	

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information										
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at www.murata-ps.com									
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H								
1.2V	30A	36W	48V	36V	75V	2.25kV	83%				•							2.3	1.45	0.4	58.4	36.8	10.2	UCQ-1.2/30-D48N-C	UCQ							
1.5V	20A	30W	48V	36V	75V	2.25kV	87%			•								2.3	0.9	0.37	58.4	22.9	9.4	UCE-1.5/20-D48N-C	UCE							
	25A	37.5W	48V	36V	75V	2.25kV	83%				•							2.3	1.45	0.4	58.4	36.8	10.2	UCQ-1.5/25-D48N-C	UCQ							
	40A	60W	48V	36V	75V	2.25kV	86%					•							2.3	1.45	0.4	58.4	36.8	10.2	UCQ-1.5/40-D48N-C	UCQ						
			24V	18V	36V	2kV	88%						•							2.3	1.45	0.42	58.4	36.8	10.7	UVQ-1.5/40-D24P-C	UVQ					
1.8V	30A	54W	48V	36V	75V	2.25kV	88%			•								2.3	0.9	0.37	58.4	22.9	9.4	UCE-1.8/30-D48N-C	UCE							
							86%				•												2.3	1.45	0.4	58.4	36.8	10.2	UCQ-1.8/30-D48N-C	UCQ		
2.5V	20A	50W	48V	36V	75V	2.25kV	88%			•								2.3	0.9	0.37	58.4	22.9	9.4	UCE-2.5/20-D48	UCE							
																							2.3	0.9	0.41	58.4	22.9	10.4	ULE-2.5/20-D48N-C	ULE		
	30A	75W	48V	36V	75V	2.25kV	87%					•							2.3	1.45	0.4	58.4	36.8	10.2	UCQ-2.5/30-D48N-C	UCQ						
																									2.3	1.45	0.42	58.4	36.8	10.7	UVQ-2.5/35-D24P-C	UVQ
	40A	100W	24V	18V	36V	2.25kV	84%					•								2.3	1.45	0.4	58.4	36.8	10.2	UCQ-2.5/40-D24P-C	UCQ					
																										2.3	1.45	0.42	58.4	36.8	10.7	UVQ-2.5/40-D48N-C
3.3V	0.3A	1W	3.3V	2.97V	3.63V	1kV	76%											0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0303DC	MEE1							
																							0.24	0.45		0.39	6	11.5	10	MEE1S0303SC		
							78%										•							0.5	0.43	0.27	12.7	11	7.05	MTE1S0303MC	MTE1	
							73%																	0.30	0.5	0.26	7.7	12.7	6.6	NTE0303MC	NTE	
			3kV	75%																	0.39	0.45	0.21	9.8	11.5	5.4	NKE0303DC	NKE				
																					0.24	0.45	0.29	6	11.5	7.5	NKE0303SC					
				5.2kV	66%																0.39	0.77	0.49	9.8	19.5	12.5	NMJ0303SAC	NMJ				
				5V	4.5V	5.5V	1kV	76%															0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0503DC	MEE1		
																					0.24	0.45	0.39	6	11.5	10	MEE1S0503SC					
	79%																					0.5	0.43	0.27	12.7	11	7.05	MTE1S0503MC	MTE1			
	3kV	75%																				0.39	0.45	0.21	9.8	11.5	5.4	NKE0503DC	NKE			
																					0.24	0.45	0.29	6	11.5	7.5	NKE0503SC					
	5.2kV	64%																				0.39	0.77	0.49	9.8	19.5	12.5	NMJ0503SAC	NMJ			
	1kV	74%																				0.30	0.5	0.26	7.7	12.7	6.6	NTE0503MC	NTE			
	0.606A	2W	3.3V				2.97	3.63	5.2kV	70%													0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0303SC	MEJ2		
																							0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0503SC			
				12	10.8V	13.2V				73%														0.77	0.39	0.5	19.65	9.95	12.65		MEJ2S1203SC	
	0.9A	3W	5V	4.5V	9V	1kV	63%													0.58	1.27	0.28	14.7	32.3	7	NDS0503C	NDS					
							71%																0.58	1.27	0.28	14.7		32.3	7	NDS1203C		
							71%																	0.58	1.27	0.28		14.7	32.3	7	NDS2403C	
							70%																	0.58	1.27	0.28		14.7	32.3	7	NDY2403C	
							71%																	0.58	1.27	0.28		14.7	32.3	7	NDS4803C	
	1.52A	6W	12V	9V	36V	1.5kV	78%													1.26	0.79	0.39	32	20	10	NCS6S1203C	NCS6					
							48V	18V	75V	1.5kV	76%													1.26	0.79	0.39		32	20	10	NCS6S4803C	
	2.94A	10W	24V	18V	36V	1.5kV	79%													0.98	1.26	0.39	25	32	10	NPH10S2403EIC	NPH10S					
																								0.98	1.26	0.39		25	32	10	NPH10S2403IC	
																									0.98	1.26		0.39	25	32	10	NPH10S4803EIC
																									0.98	1.26		0.39	25	32	10	NPH10S4803IC
4.25A	14W	12V	10V	18V	1.5kV	86%													2	1	0.49	50.8	25.4	12.5	UWR-3.3/4250-D12A-C	UWR15WA						
																							2	1	0.49		50.8	25.4	12.5	UWR-3.3/4250-D24A-C		
																								2	1		0.49	50.8	25.4	12.5	UWR-3.3/4250-D48A-C	
4.4A	15W	24V	18V	36V	1.5kV	81%													1	2	0.39	25	50	10	NPH15S2403EIC	NPH15S						
																							1	2	0.39		25	50	10	NPH15S2403IC		
																								1	2		0.39	25	50	10	NPH15S4803EIC	
4.5A	14.9W	24V	9V	36V	1.5kV	87.5%													1.1	0.96	0.36	27.9	24.4	9.1	UEI15-033-Q12P-C	UEI15W						
5A	16.5W	48V	18V	75V	1.5kV	88%														1.1	0.96	0.36	27.9	24.4	9.1	UEI15-033-Q48NR-C	UEI15W					
7.3A	25W	24V	18V	36V	1.5kV	81%														1.38	1.97	0.39	35	50	10	NPH25S2403EIC	NPH25S					
																									1.38	1.97		0.39	35	50	10	NPH25S2403IC

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information						
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at www.murata-ps.com					
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H				
5V	0.2A	1W	3.3V	2.97V	3.63V	1kV	79%										●	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0305DC	MEE1			
							82%											●	0.24	0.45	0.39	6	11.5	10		MEE1S0305SC		
							81%											●	0.323	0.331	0.335	8.2	8.4	8.5		MTU1S0305MC		
							78%											●	0.30	0.5	0.26	7.7	12.7	6.6		NTE0305MC		
				76%											●	0.39	0.45	0.212	9.8	11.5	5.4	NKE0305DC	NKE					
															●	0.24	0.45	0.293	6	11.5	7.5	NKE0305SC						
				62%											●	0.70	0.5	0.13	17.8	12.7	3.3	NTF0505MC	NTF					
				5V	4V	6V	1kV	80%											●	0.39	0.45	0.27	9.8	11.5		6.8	MEE1S0505DC	MEE1
								84%										●	0.24	0.45	0.39	6	11.5	10		MEE1S0505SC		
								82%										●	0.5	0.43	0.27	12.7	11	7.05		MTE1S0505MC		
								83%										●	0.323	0.331	0.335	8.2	8.4	8.5		MTU1S0505MC		
					84%											●	0.39	0.77	0.27	9.8	19.5	6.8	MEV1S0505DC	MEV1				
															●	0.24	0.77	0.39	6	19.5	10	MEV1S0505SC						
			69%												●	0.39	0.45	0.21	9.8	11.5	5.4	NKE0505DC	NKE					
			78%												●	0.24	0.45	0.29	6	11.5	7.5	NKE0505SC						
			69%												●	0.39	0.45	0.27	9.8	11.5	6.8	NME0505DC	NME					
															●	0.24	0.45	0.39	6	11.5	10	NME0505SC						
			68%												●	0.39	0.77	0.49	9.8	19.5	12.5	NMJ0505SAC	NMJ					
			69%												●	0.24	0.77	0.39	6	19.5	10	NMR100C	NMR					
			68%												●	0.39	0.77	0.27	9.8	19.5	6.8	NMV0505DAC	NMV					
															●	0.24	0.77	0.39	6	19.5	10	NMV0505SAC						
			68%												●	0.30	0.5	0.26	7.7	12.7	6.6	NTE0505MC	NTE					
			77%												●	0.30	0.5	0.26	7.7	12.7	6.6	NTE0505MEC						
			73%												●	0.70	0.5	0.13	17.8	12.7	3.3	NTF1205MC	NTF					
			12V		9V	15V	1kV	79%											●	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1205DC	MEE1	
								84%											●	0.24	0.45	0.39	6	11.5	10	MEE1S1205SC		
								84%											●	0.24	0.77	0.39	6	19.5	10	MER1S1205SC		
				84%														●	0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1205DC	MEV1		
															●	0.24	0.77	0.39	6	19.5	10	MEV1S1205SC						
				71%											●	0.39	0.45	0.21	9.8	11.5	5.4	NKE1205DC	NKE					
				84%											●	0.24	0.45	0.29	6	11.5	7.5	NKE1205SC						
				84%											●	0.323	0.331	0.335	8.2	8.4	8.5	MTU1S1205MC	MTU1					
				69%											●	0.39	0.45	0.27	9.8	11.5	6.8	NME1205DC	NME					
															●	0.24	0.45	0.39	6	11.5	10	NME1205SC						
				69%											●	0.39	0.77	0.49	9.8	19.5	12.5	NMJ1205SAC	NMJ					
				69%											●	0.24	0.77	0.39	6	19.5	10	NMR106C	NMR					
				69%											●	0.39	0.77	0.27	9.8	19.5	6.8	NMV1205DAC	NMV					
															●	0.24	0.77	0.39	6	19.5	10	NMV1205SAC						
				67%											●	0.30	0.5	0.26	7.7	12.7	6.6	NTE1205MC	NTE					
				15V	13.5V	16.5V	1kV	77%											●	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1505DC		MEE1
								83%											●	0.24	0.45	0.39	6	11.5	10	MEE1S1505SC		
								83.5%											●	0.5	0.43	0.27	12.7	11	7.05	MTE1S1505MC		
								83.5%											●	0.24	0.77	0.27	9.8	19.5	6.8	MEV1S1505DC		
																		●	0.24	0.77	0.39	6	19.5	10	MEV1S1505SC			
			69%														●	0.24	0.77	0.39	6	19.5	10	NMR112C	NMR			
			67%												●	0.24	0.77	0.39	6	19.5	10	NMV1505SAC	NMV					
			18		36		1kV	70%											●	0.70	0.5	0.13	17.8	12.7	3.3	NTF2405MC	NTF	
								75%											●	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S2405DC	MEE1	
								84%											●	0.24	0.45	0.39	6	11.5	10	MEE1S2405SC		
				84%														●	0.24	0.77	0.39	6	19.5	10	MER1S2405SC			
			83%											●	0.5	0.43	0.27	12.7	11	7.05	MTE1S2405MC	MTE1						

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information							
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com						
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L			W	H				
5V	0.2A	1W	24V	21.6V	26.4V	3kV	84%											0.39	0.77	0.27	9.8	19.5	6.8	MEV1S2405DC	MEV1			
																						0.24	0.77	0.39		6	19.5	10
																							0.39	0.45	0.27	9.8	11.5	6.8
																				0.24	0.45	0.39	6	11.5	10	NME2405SC		
																				0.24	0.77	0.39	6	19.5	10	NMR118C	NMR	
																				0.24	0.77	0.39	6	19.5	10	MER1S4805SC	MER1	
				48V	43.2V	52.8V	1kV	79.5%										0.24	0.77	0.39	6	19.5	10	MEV1S4805SC	MEV1			
							3kV	84%										0.24	0.77	0.39	6	19.5	10	MEV1S4805SC	MEV1			
	0.3A	1.5W	5V	4.5V	5.5V	8kV	75%											1.27	0.81	0.4	32.3	20.5	10.2	PWR1300AC	PWR13XXC			
	0.3A	1.5W	12V	10.8V	13.2V	8kV	75%											1.27	0.81	0.4	32.3	20.5	10.2	PWR1306AC	PWR13XXC			
	0.4A	2W	3.3V	2.97	3.63	5.2kV	74%											0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0305SC	MEJ2			
				5V	4.5V	5.5V	9V	66%											0.36	0.86	0.44	9.2	21.8	11.1	NDL0505SC	NDL		
							1kV	81%													0.30	0.77	0.4	7.5	19.5	10	NMG0505SC	NMG
							3kV	78%													0.30	0.55	0.39	7.5	14	10	NML0505SC	NML
							5.2kV	80%													0.30	0.77	0.4	7.5	19.5	10	NMK0505SAC	NMK
							5.2kV	75%											0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0505SC	MEJ2		
				12V	10.8V	13.2V	9V	73%											0.36	0.86	0.44	9.2	21.8	11.1	NDL1205SC	NDL		
							1kV	81%													0.30	0.77	0.4	7.5	19.5	10	NMG1205SC	NMG
							3kV	81%													0.30	0.55	0.39	7.5	14	10	NML1205SC	NML
							5.2kV	80%													0.30	0.77	0.4	7.5	19.5	10	NMK1205SAC	NMK
							5.2kV	78%											0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1205SC	MEJ2		
				15V	13.5V	16.5V	3kV	84%											0.30	0.77	0.4	7.5	19.5	10	NMK1505SAC	NMK		
							5.2kV	76%													0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1505SC	MEJ2
				24V	18V	36V	1kV	74%											0.36	0.86	0.44	9.2	21.8	11.1	NDL2405SC	NDL		
				24V	21.6V	26.4V	3kV	84%											0.30	0.77	0.4	7.5	19.5	10	NMK2405SAC	NMK		
				48V	36V	72V	1kV	73%											0.36	0.86	0.44	9.2	21.8	11.1	NDL4805SC	NDL		
				5V	4.5V	5.5V	3kV	83%											0.56	0.32	0.4	14.15	8.15	10.15	MEE3S0505SC	MEE3		
							3kV	83%													0.4	0.77	0.3	10.2	19.7	7.7	MEV3S0505SC	MEV3
			9V				71%													0.58	1.27	0.28	14.7	32.3	7	NDTS0505C	NDTS	
			9V				66%													0.58	1.27	0.28	14.7	32.3	7	NDY0505C	NDY	
			12V	9V	18V	1kV	73%											0.58	1.27	0.28	14.7	32.3	7	NDTS1205C	NDTS			
						1kV	71%													0.58	1.27	0.28	14.7	32.3	7	NDY1205C	NDY	
						10.8	85%													0.56	0.32	0.4	14.15	8.15	10.15	MEE3S1205SC	MEE3	
						3kV	84%													0.4	0.77	0.3	10.2	19.7	7.7	MEV3S1205SC	MEV3	
			24V	18V	36V	1kV	78%											0.58	1.27	0.28	14.7	32.3	7	NDTS2405C	NDTS			
						1kV	70%													0.58	1.27	0.28	14.7	32.3	7	NDY2405C	NDY	
						48V	75%													0.58	1.27	0.28	14.7	32.3	7	NDTS4805C	NDTS	
						48V	73%													0.58	1.27	0.28	14.7	32.3	7	NDY4805C	NDY	
			5V	4.5V	5.5V	8kV	80%											2	1	0.4	50.8	25.4	10.2	HB04U050505QC	HB04UC			
							87%														2	1	0.4	50.8		25.4	10.2	HB04U1250505QC
			12V	9V	36V	1.5kV	82%											1.26	0.79	0.39	32	20	10	NCS6S1205C	NCS6			
							82%														1.26	0.79	0.39	32	20	10	NDS6S2405C	NDS6
							80%														1.26	0.79	0.39	32	20	10	NCS6S4805C	NCS6
			24V	18V	36V	1.5kV	83%											0.98	1.26	0.39	25	32	10	NPH10S2405EIC	NPH10S			
							83%														0.98	1.26	0.39	25		32	10	NPH10S2405IC
							83%														0.98	1.26	0.39	25		32	10	NPH10S4805EIC
							83%														0.98	1.26	0.39	25		32	10	NPH10S4805IC
			12V	10V	18V	1.5kV	85%											2	1	0.49	50.8	25.4	12.5	UWR-5/3000-D12A-C	UWR 15W			
							88%														1	1	0.41	25.4	25.4	10.4	SPM15-050-Q12	SPM15
			24V	9V	36V	1.5kV	87%											1.1	0.96	0.36	27.9	24.4	9.1	UEI15-050-Q12P-C	UEI 15W			
							84%														0.98	1.97	0.39	25	50	10	NPH15S2405EIC	NPH15S
			24V	18V	36V	1.5kV	88%											0.98	1.97	0.39	25	50	10	NPH15S2405IC				
							88%														2	1	0.49	50.8	25.4	12.5	UWR-5/3000-D24A-C	UWR 15W
			48V	18V	75V	2.25kV	86%											1.1	0.96	0.36	27.9	24.4	9.1	UEI15-050-Q48N-C	UEI15W			
							85%														0.98	1.97	0.39	25	50	10	NPH15S4805EIC	NPH15S
							85%														0.98	1.97	0.39	25	50	10	NPH15S4805IC	
							88%														2	1	0.49	50.8	25.4	12.5	UWR-5/3000-D48A-C	UWR 15W

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information							
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com						
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H					
5V	5A	25W	24V	18V	36V	1.5kV	84%											1.38	1.97	0.39	35	50	10	NPH25S2405EIC	NPH25S				
				9V	36V	1.5kV	87.5%													1.38	1.97	0.39	35	50		10	NPH25S2405IC		
			48V	18V	75V	1.5kV	90%														2	1.6	0.4	50.8	40.6	10.2	UHE-5/5000-Q12-C	UHE12-30W	
							91%															2	1.6	0.4	50.8	40.6	10.2		UHE-5/5000-Q48-C
				36V	75V	1.6kV	91%														1	1	0.41	25.4	25.4	10.4	SPM25-050-D48		SPM25
						1.5kV	89%															0.92	0.75	0.35	23.4	19.1	8.9		ULT-5/5-D48
	6A	30W	24V	9V	36V	1.5kV	91.5%												2	1.6	0.4	50.8	40.6	10.2	UHE-5/6000-Q12-C	UHE12-30W			
						2.25kV	89.5%														1.92	0.35	0.92	48.8	8.9		23.4	UEI30-050-Q12P-C	UEI30
			36V	75V	1.5kV	91.5%														2	1.6	0.4	50.8	40.6	10.2	UHE-5/6000-D48-C	UHE12-30W		
						91.5%															2	1.6	0.4	50.8	40.6	10.2		UHE-5/6000-Q48-C	
			48V	18V	75V	1.5kV	91.5%														1.92	0.35	0.92	48.8	8.9	23.4	UEI30-050-Q48N-C	UEI30	
							2.25kV	91%														1.92	0.35	0.92	48.8	8.9	23.4	UEI30-050-Q48N-C	
	7A	35W	12V	10V	18V	1.5kV	89.5%												2	2	0.45	50.8	50.8	11.4	UWR-5/7-D12A-C	UWR26-40W			
	8A	40W	24V	18V	36V	1.5kV	90%												2	2	0.45	50.8	50.8	11.4	UWR-5/8-D24A-C	UWR26-40W			
							90%														2	2	0.45	50.8	50.8		11.4	UWR-5/8-D48A-C	
			48V	36V	75V	1.5kV	90%													2	2	0.45	50.8	50.8	11.4		UWR-5/8-D48A-C		
	10A	50W	12V	9V	18V	2kV	89%												2.3	0.9	0.41	58.4	22.9	10.4	ULE-5/10-D12P-C	ULE20A			
							90%															1.95	1.55	0.375	49.5		39.4	9.5	UEI-5/10-Q12PR-C
			24V	9V	36V	1.5kV	90%													0.91	1.31	0.36	23.1	33.27	9.14	UWS-5/10-Q48	UWS		
							90.5%															2.3	0.9	0.37	58.4	22.9	9.4	UCE-5/10-D48	UCE
			48V	36V	75V	2.25kV	90.5%													2.4	2.3	0.4	61	58.4	10.2	UCH-5/10-D48N-C	UCH		
							89%															2.4	2.3	0.4	61	58.4	10.2	UCH-5/10-D48N-C	
	12A	60W	24V	18V	36V	2kV	90%												2.3	0.9	0.41	58.4	22.9	10.4	ULE-5/12-D24P-C	ULE20A			
							91%														1.95	1.55	0.375	49.5	39.4		9.5	UEI-5/12-Q48NR-C	
48V			18V	75V	2.25kV	91%												2.3	0.9	0.41	58.4	22.9	10.4	ULE-5/12-D48N-C					
15A	75W	12V	9V	36V	2.25kV	91%												2.3	0.38	0.9	58.4	9.7	22.9	UWE-5/15-Q12P-C	UWE				
						91%														2.3	1.45	0.38	58.4	36.8		9.5	ULQ-5/15-D24P-C	ULQ-15A	
		24V	18V	36V	2kV	90%													2.3	0.38	0.9	58.4	9.7	22.9	UWE-5/15-Q48N-C	UWE			
						91%														2.3	1.45	0.38	58.4	36.8	9.5		ULQ-5/15-D48N-C		
17A	85W	12V	9V	36V	2kV	90.5%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-5/17-Q12P-C	UQQ7-15A				
20A	100W	24V	18V	36V	2.25kV	91.5%												2.3	1.45	0.4	58.4	36.8	10.2	UCQ-5/20-D24P-C	UCQ				
						90.5%														2.4	2.3	0.4	61	58.4		10.2	UCH-5/20-D24P-C		
		48V	36V	75V	2.25kV	93%													2.3	1.45	0.4	58.4	36.8	10.2	UCQ-5/20-D48N-C	UCQ			
						91%														2.22	1.45	0.43	56.4	36.8	10.9		UQQ-5/20-Q48N-C		
						89%														2.3	0.9	0.39	58.4	22.9	9.9		UWE-5/20-Q48-C	UWE-100-120W	
						92.5%														2.3	0.9	0.37	58.4	22.9	9.4		UCE-5/20-D48	UCE	
						91%														1.3	0.9	0.4	33	22.9	10.2		ULS-5/20-D48	ULS-100W	
						89%														2.3	1.45	0.42	58.4	36.8	10.7		UVQ-5/20-D48N-C	UVQ	
30A	150W	48V	36V	75V	91%												2.4	2.3	0.4	61	58.4	10.2	UCH-5/30-D48N-C	UCH					
40A	200W				91%												2.4	2.3	0.4	61	58.4	10.2	HPH-5/40-D48N-C	HPH					
6V	0.167A	1W	5V	4.5V	5.5V	1kV	84%											0.5	0.43	0.27	12.7	11	7.05	MTE1S0506MC	MTE1				
							72%													0.30	0.5	0.26	7.7	12.7	6.6	NTE0506MC	NTE		
8.3V	22A	182.6W	48V	36V	75V	2.25kV	92.5%											2.3	0.4	1.45	58.4	10.2	36.8	HPQ-8.3/22-D48	HPQ				
9V	0.028A	0.25W	5V	4.5V	5.5V	1kV	75%											0.39	0.45	0.27	9.8	11.5	6.8	LME0509DC	LME				
							75%													0.24	0.45	0.39	6	11.5		10	LME0509SC		
	0.1A	0.9W	24V	22.8V	25.2V	1kV	62%											0.39	0.45	0.27	9.8	11.5	6.8	LME1209DC	LME				
							62%													0.24	0.45	0.39	6	11.5		10	LME1209SC		
	0.111A	1W	3.3V	2.97V	3.63V	1kV	79%											0.39	0.45	0.27	9.8	11.5	6.8	NMF2409DC	NMF				
							75%													0.24	0.77	0.27	9.8	19.5		6.8	NMF2409SC		
							79%													0.39	0.45	0.27	9.8	11.5		6.8	MEE1S0309DC		
							85%													0.24	0.45	0.39	6	11.5		10	MEE1S0309SC		
			5V	4.5V	5.5V	1kV	77%													0.5	0.43	0.27	12.7	11	7.05	MTE1S0309MC	MTE1		
							77%													0.30	0.5	0.26	7.7	12.7	6.6	NTE0309MC	NTE		
							75%													0.39	0.45	0.21	9.8	11.5	5.4	NKE0309DC	NKE		
							75%													0.24	0.45	0.29	6	11.5	7.5	NKE0309SC			
5V	4.5V	5.5V	1kV	80%												0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0509DC	MEE1						
				80%													0.24	0.45	0.39	6	11.5	10		MEE1S0509SC					

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information										
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at www.murata-ps.com									
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L			W	H							
9V	0.111A	1W	5V	4.5V	5.5V	1kV	87%												0.24	0.77	0.39	6	19.5	10	MER1S0509SC	MER1					
							85%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S0509MC	MTE1
							86%																	0.323	0.331	0.335	8.2	8.4	8.5	MTU1S0509MC	MTU1
						3kV	86.5%																	0.39	0.77	0.27	9.8	19.5	6.8	MEV1S0509DC	MEV1
																								0.24	0.77	0.39	6	19.5	10	MEV1S0509SC	
							75%																	0.39	0.45	0.21	9.8	11.5	5.4	NKE0509DC	NKE
																							0.24	0.45	0.29	6	11.5	7.5	NKE0509SC		
						1kV	77%																	0.39	0.45	0.27	9.8	11.5	6.8	NME0509DC	NME
																								0.24	0.45	0.39	6	11.5	10	NME0509SC	
			5.2kV	72%																	0.39	0.77	0.49	9.8	19.5	12.5	NMJ0509SAC	NMJ			
			3kV	75%																	0.39	0.77	0.27	9.8	19.5	6.8	NMV0509DAC	NMV			
																					0.24	0.77	0.39	6	19.5	10	NMV0509SAC				
			1kV	75%																	0.30	0.5	0.26	7.7	12.7	6.6	NTE0509MC	NTE			
			12V	10.8V	13.2V	1kV	79%														0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1209DC	MEE1			
							86.5%																0.24	0.45	0.39	6	11.5		10	MEE1S1209SC	
							86%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S1209MC	MTE1
						3kV	86%																	0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1209DC	MEV1
																								0.24	0.77	0.39	6	19.5	10	MEV1S1209SC	
							78%																	0.39	0.45	0.21	9.8	11.5	5.4	NKE1209DC	NKE
																							0.24	0.45	0.29	6	11.5	7.5	NKE1209SC		
						1kV	87%																	0.323	0.331	0.335	8.2	8.4	8.5	MTU1S1209MC	MTU1
	74%																					0.39	0.45	0.27	9.8	11.5	6.8	NME1209DC	NME		
																			0.24	0.45	0.39	6	11.5	10	NME1209SC						
	5.2kV	73%																	0.39	0.77	0.49	9.8	19.5	12.5	NMJ1209SAC	NMJ					
	3kV	74%																	0.39	0.77	0.27	9.8	19.5	6.8	NMV1209DAC	NMV					
																			0.24	0.77	0.39	6	19.5	10	NMV1209SAC						
	1kV	73%																	0.30	0.5	0.26	7.7	12.7	6.6	NTE1209MC	NTE					
	15V	13.5V	16.5V	1kV	77%														0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1509DC	MEE1					
					86.5%																0.24	0.45	0.39	6	11.5		10	MEE1S1509SC			
					86%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S1509MC	MTE1		
				3kV	86.5%																	0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1509DC	MEV1		
																						0.24	0.77	0.39	6	19.5	10	MEV1S1509SC			
																							0.39	0.45	0.27	9.8	11.5	6.8	MEE1S2409DC	MEE1	
																			0.24	0.45	0.39	6	11.5	10	MEE1S2409SC						
	24V	21.6V	26.4V	1kV	86%														0.5	0.43	0.27	12.7	11	7.05	MTE1S2409MC	MTE1					
					86.5%																0.39	0.77	0.27	9.8	19.5	6.8	MEV1S2409DC	MEV1			
																						0.24	0.77	0.39	6	19.5	10		MEV1S2409SC		
	24V	21.6V	26.4V	3kV	86.5%														0.39	0.77	0.27	9.8	19.5	6.8	MEV1S2409DC	MEV1					
																					0.24	0.77	0.39	6	19.5		10	MEV1S2409SC			
				1kV	75%														0.39	0.45	0.27	9.8	11.5	6.8	NME2409DC	NME2					
																					0.24	0.45	0.39	6	11.5		10	NME2409SC			
	48V	43.2V	52.8V	1kV	83%														0.24	0.77	0.39	6	19.5	10	MER1S4809SC	MER1					
82%																				0.24	0.77	0.39	6	19.5	10	MEV1S4809SC	MEV1				
0.22A	2W	5V	4.5V	5.5V	1kV	71%												0.36	0.86	0.44	9.2	21.8	11.1	NDL0509SC	NDL						
					1kV	84%															0.30	0.77	0.4	7.5	19.5	10	NMG0509SC	NMG			
					1kV	81%																0.30	0.55	0.39	7.5	14	10	NML0509SC	NML		
					3kV	83%																0.30	0.77	0.4	7.5	19.5	10	NMK0509SAC	NMK		
					5.2kV	78%																0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0509SC	MEJ2		
																							0.36	0.86	0.44	9.2	21.8	11.1	NDL1209SC	NDL	
		12V	9V	18V	1kV	79%														0.36	0.86	0.44	9.2	21.8	11.1	NDL1209SC	NDL				
																						0.30	0.77	0.4	7.5	19.5	10	NMG1209SC	NMG		
					1kV	84%														0.30	0.55	0.39	7.5	14	10	NML1209SC	NML				
																						0.30	0.77	0.4	7.5	19.5	10	NMK1209SAC	NMK		
		12V	10.8V	13.2V	3kV	83%														0.30	0.77	0.4	7.5	19.5	10	NMK1209SAC	NMK				
						5.2kV	79%															0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1209SC	MEJ2		
15V	13.5V	16.5V	3kV	86%														0.30	0.77	0.4	7.5	19.5	10	NMK1509SAC	NMK						
				5.2kV	78%															0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1509SC	MEJ2				
24V	18V	36V	1kV	81%														0.36	0.86	0.44	9.2	21.8	11.1	NDL2409SC	NDL						
24V	21.6V	26.4V	3kV	87%														0.30	0.77	0.4	7.5	19.5	10	NMK2409SAC	NMK						
48V	26V	72V	1kV	80%														0.36	0.86	0.44	9.2	21.8	11.1	NDL4809SC	NDL						

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information							
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com						
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L			W	H				
9V	0.25A	2.25W	5V	4.75V	5.25V	0.5kV	80%											1.29	0.53	0.38	32.6	13.3	9.5	LP02U05S09KC	LP02U			
			12V	11.4V	12.6V	0.5kV	77%												1.29	0.53	0.38	32.6	13.3	9.5		LP02U12S09KC		
	0.333A	3W	5V	4.5V	5.5V	1kV	87%											0.56	0.32	0.4	14.15	8.15	10.15	MEE3S0509SC	MEE3			
						3kV	87%													0.4	0.77	0.3	10.2	19.7	7.7	MEV3S0509SC	MEV3	
						9V	1kV	72%													0.58	1.27	0.28	14.7	32.3	7	NDY0509C	NDY
						9V	18V	1kV	78%												0.58	1.27	0.28	14.7	32.3	7	NDY1209C	NDY
			12V	10.8	13.2	1kV	88%												0.56	0.32	0.4	14.15	8.15	10.15	MEE3S1209SC	MEE3		
						3kV	87.5%													0.4	0.77	0.3	10.2	19.7	7.7	MEV3S1209SC	MEV3	
						24V	18V	36V	1kV	78%											0.58	1.27	0.28	14.7	32.3	7	NDY2409C	NDY
						48V	36V	72V	1kV	80%											0.58	1.27	0.28	14.7	32.3	7	NDY4809C	

12V	0.021A	0.25W	5V	4.5V	5.5V	1kV	75%											0.39	0.45	0.27	9.8	11.5	6.8	LME0512DC	LME						
			12V	10.8V	13.2V	1kV	75%												0.24	0.45	0.39	6	11.5	10		LME0512SC					
			0.083A	1W	3.3V	2.97V	3.63V	1kV	81%											0.39	0.45	0.27	9.8	11.5		6.8	MEE1S0312DC	MEE1			
									86%														0.24	0.45		0.39	6		11.5	10	MEE1S0312SC
	77%																					0.5	0.43	0.27	12.7	11	7.05		MTE1S0312MC	MTE1	
	67%																					0.30	0.5	0.26	7.7	12.7	6.6		NTE0312MC	NTE	
	4V	6V							1kV	67%												0.70	0.5	0.13	17.8	12.7	3.3		NTF0512MC	NTF	
	5V	4.5V							5.5V	1kV	81%													0.39	0.45	0.27	9.8		11.5	6.8	MEE1S0512DC
					87%																	0.24	0.45	0.39	6	11.5	10	MEE1S0512SC			
					87%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S0512MC	MTE1		
					87%																	0.39	0.77	0.27	9.8	19.5	10	MER1S0512SC	MER1		
					87%																	0.24	0.77	0.39	6	19.5	10	MEV1S0512DC	MEV1		
					87%																	0.24	0.77	0.39	6	19.5	10	MEV1S0512SC			
					1kV	4.5V	5.5V	87%														0.323	0.331	0.335	8.2	8.4	8.5	MTU1S0512MC	MTU1		
			78%																		0.39	0.45	0.27	9.8	11.5	6.8	NME0512DC	NME			
			3kV	77%																			0.24	0.45	0.39	6	11.5	10	NME0512SC	NME	
																								0.39	0.45	0.21	9.8	11.5	5.4		NKE0512DC
																								0.24	0.45	0.29	6	11.5	7.5		NKE0512SC
																							0.39	0.77	0.27	9.8	19.5	6.8	NMV0512DAC	NMV	
																				0.24	0.77	0.39	6	19.5	10	NMV0512SAC					
			5.2kV	71%																0.39	0.77	0.49	9.8	19.5	12.5	NMJ0512SAC	NMJ				
			1kV	77%																0.24	0.77	0.39	6	19.5	10	NMR101C	NMR				
			5V	4.75V	5.25V	1kV	62%													0.30	0.5	0.26	7.7	12.7	6.6	NTE0512MC	NTE				
			12V	10.8V	13.2V	1kV	62%														0.39	0.77	0.27	9.8	19.5	6.8	NMF0512DC	NMF			
							66%																0.24	0.77	0.39	6	19.5		10	NMF0512SC	
	9V	15V					1kV	66%												0.70	0.5	0.13	17.8	12.7	3.3	NTF1212MC	NTF				
	82%																			0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1212DC	MEE1				
	88.5%																			0.24	0.45	0.39	6	11.5	10	MEE1S1212SC					
	88%																			0.5	0.43	0.27	12.7	11	7.05	MTE1S1212MC			MTE1		
	88%																		0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1212DC	MEV1					
	88%																		0.24	0.77	0.39	6	19.5	10	MEV1S1212SC						
	88%																		0.323	0.331	0.335	8.2	8.4	8.5	MTU1S1212MC	MTU1					
	1kV	10.8V				13.2V	76%														0.39	0.45	0.39	6	11.5	10	NME1212SC	NME			
							62%															0.39	0.77	0.27	9.8	19.5	6.8		NMF1212DC	NMF	
							62%															0.24	0.77	0.39	6	19.5	10		NMF1212SC		
			3kV	79%																	0.39	0.45	0.21	9.8	11.5	5.4	NKE1212DC		NKE		
																					0.24	0.45	0.29	6	11.5	7.5	NKE1212SC				
																					0.39	0.77	0.27	9.8	19.5	6.8	NMV1212DAC			NMV	
																	0.24	0.77	0.39	6	19.5	10	NMV1212SAC								
	5.2kV	73%															0.39	0.77	0.49	9.8	19.5	12.5	NMJ1212SAC	NMJ							
	1kV	10.8V	13.2V	76%														0.24	0.77	0.39	6	19.5	10	NMR107C	NMR						
				74%															0.30	0.5	0.26	7.7	12.7	6.6	NTE1212MC	NTE					

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information										
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at www.murata-ps.com									
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L			W	H							
12V	0.083A	1W	15V	13.5V	16.5V	1kV	78%										•	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1512DC	MEE1						
							87.5%															•	0.24	0.45	0.39	6	11.5	10	MEE1S1512SC	MEE1	
							87%																•	0.24	0.77	0.39	6	19.5	10	MER1S1512SC	MER1
																							•	0.5	0.43	0.27	12.7	11	7.05	MTE1S1512MC	MTE1
						3kV	87.5%															•	0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1512DC	MEV1	
																							•	0.24	0.77	0.39	6	19.5	10	MEV1S1512SC	MEV1
																			•	0.24	0.77	0.39	6	19.5	10	NMV1512SAC	NMV				
																			•	0.24	0.77	0.39	6	19.5	10	NMR113C	NMR				
																			•	0.70	0.5	0.13	17.8	12.7	3.3	NTF52412MC	NTF				
																			•	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S2412DC	MEE1				
																			•	0.24	0.45	0.39	6	11.5	10	MEE1S2412SC	MEE1				
																			•	0.24	0.77	0.39	6	19.5	10	MER1S2412SC	MER1				
																		•	0.5	0.43	0.27	12.7	11	7.05	MTE1S2412MC	MTE1					
																		•	0.39	0.77	0.27	9.8	19.5	6.8	MEV1S2412DC	MEV1					
																		•	0.24	0.77	0.39	6	19.5	10	MEV1S2412SC	MEV1					
																		•	0.39	0.45	0.27	9.8	11.5	6.8	NME2412DC	NME2					
																		•	0.24	0.45	0.39	6	11.5	10	NME2412SC	NME2					
																		•	0.24	0.77	0.39	6	19.5	10	NMR119C	NMR					
																		•	0.39	0.77	0.27	9.8	19.5	6.8	NMF2412DC	NMF					
																		•	0.24	0.77	0.39	6	19.5	10	NMF2412SC	NMF					
																		•	0.24	0.77	0.39	6	19.5	10	MER1S4812SC	MER1					
																		•	0.24	0.77	0.39	6	19.5	10	MEV1S4812SC	MEV1					
																		•	1.27	0.81	0.4	32.3	20.5	10.2	PWR1301AC	PWR13XXC					
																		•	1.27	0.81	0.4	32.3	20.5	10.2	PWR1307AC						
																		•	0.36	0.86	0.44	9.2	21.8	11.1	NDL0512SC	NDL					
																		•	0.30	0.77	0.4	7.5	19.5	10	NMG0512SC	NMG					
																		•	0.30	0.55	0.39	7.5	14	10	NML0512SC	NML					
																		•	0.30	0.77	0.4	7.5	19.5	10	NMK0512SAC	NMK					
																		•	0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0512SC	MEJ2					
																		•	0.36	0.86	0.44	9.2	21.8	11.1	NDL1212SC	NDL					
																		•	0.30	0.77	0.4	7.5	19.5	10	NMG1212SC	NMG					
																		•	0.30	0.55	0.39	7.5	14	10	NML1212SC	NML					
																		•	0.30	0.77	0.4	7.5	19.5	10	NMK1212SAC	NMK					
																		•	0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1212SC	MEJ2					
																		•	0.30	0.77	0.4	7.5	19.5	10	NMK1512SAC	NMK					
																		•	0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1512SC	MEJ2					
																		•	0.36	0.86	0.44	9.2	21.8	11.1	NDL2412SC	NDL					
																		•	0.30	0.77	0.4	7.5	19.5	10	NMK2412SAC	NMK					
																		•	0.36	0.86	0.44	9.2	21.8	11.1	NDL4812SC	NDL					
																		•	0.56	0.32	0.4	14.15	8.15	10.15	MEE3S0512SC	MEE3					
																	•	0.4	0.77	0.3	10.2	19.7	7.7	MEV3S0512SC	MEV3						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDTS0512C	NDTS						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDY0512C	NDY						
																	•	0.56	0.32	0.4	14.15	8.15	10.15	MEE3S1212SC	MEE3						
																	•	0.4	0.77	0.3	10.2	19.7	7.7	MEV3S1212SC	MEV3						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDTS1212C	NDTS						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDY1212C	NDY						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDTS2412C	NDTS						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDY2412C	NDY						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDTS4812C	NDTS						
																	•	0.58	1.27	0.28	14.7	32.3	7	NDY4812C	NDY						
																	•	2	1	0.4	50.8	25.4	10.2	HB04U12S12QC	HB04UC						
																	•	2	3	0.4	50.8	25.4	10.2	HB04U15S12QC							
																	•	1.26	0.79	0.39	32	20	10	NCS6S1212C	NCS6						
																	•	1.26	0.79	0.39	32	20	10	NDS6S2412C	NDS6						
																	•	1.26	0.79	0.39	32	20	10	NCS6S4812C	NCS6						

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information										
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com									
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L			W	H							
12V	0.83A	10W	24V	18V	36V	1.5kV	86%											0.98	1.26	0.39	25	32	10	NPH10S2412EIC	NPH10S						
							86%															0.98	1.26	0.39		25	32	10	NPH10S2412IC		
	1.25A	15W	24V	18V	36V	1.5kV	85%												2	1	0.49	50.8	25.4	12.5	UWR-12/1250-D12A-C	UWR 15W					
							86%															0.98	1.97	0.39	25	50	10	NPH15S2412EIC	NPH15S		
			87%																2	1	0.49	50.8	25.4	12.5	UWR-12/1250-D24A-C	UWR 15W					
			87%																2	1	0.49	50.8	25.4	12.5	UWR-12/1250-D48A-C						
			88%																	0.98	1.97	0.39	25	50	10	NPH15S4812EIC	NPH15S				
			88%																0.98	1.97	0.39	25	50	10	NPH15S4812IC						
	1.3A	15.6W	24V	9V	36V	1.6kV													1	1	0.41	25.4	25.4	10.4	SPM15-120-Q12	SPM15					
						2.25kV	84.5%														0.96	0.32	1.1	24.4	8.1	27.9	UEI15-120-Q12	UEI15			
			48V	18V	75V	1.6kV														1	1	0.41	25.4	25.4	10.4	SPM15-120-Q48	SPM15				
						2.25kV	85%														0.96	0.32	1.1	24.4	8.1	27.9	UEI15-120-Q48	UEI15			
	2.10A	25.2W	24V	18V	36V	1.5kV	86%												1.38	1.97	0.39	35	50	10	NPH25S2412EIC	NPH25S					
							86%															1.38	1.97	0.39	35		50	10	NPH25S2412IC		
		48V	36V	75V	1.6kV	87%													1	1	0.41	25.4	25.4	10.4	SPM25-120-D48	SPM25					
					2.25kV	87.5%														1.1	0.32	0.96	27.9	8.13	24.4	UEI25-120-D48	UEI25				
	2.5A	30W	24V	9V	18V	1.5kV	89%													2	1.6	0.4	50.8	40.6	10.2	UHE-12/2500-D12-C	UHE 12-30W				
							87.5%																2	1.6	0.4	50.8		40.6	10.2	UHE-12/2500-Q12-C	
			18V	36V	2.25kV	89%															1.92	0.35	0.92	48.8	8.9	23.4	UEI30-120-Q12P-C	UEI30			
						90.5%																2	1.6	0.4	50.8	40.6	10.2	UHE-12/2500-Q48-C	UHE 12-30W		
			92%																	2	1.6	0.4	50.8	40.6	10.2	UHE-12/2500-D48-C					
			48V	18V	75V	2.25kV	89%														1.92	0.35	0.92	48.8	8.9	23.4	UEI30-120-Q48N-C	UEI30			
						91%																0.92	0.75	0.35	23.4	19.1	8.9	ULT-12/2.5-D48	ULT		
									87.7%												0.9	1.3	0.36	22.9	33.02	9.14	ULS-12/2.5-D48	ULS-30W			
			4.2A	50.4W	24V	9V	36V	2.25kV	89.5%													1.95	1.55	0.375	49.5	39.4	9.5	UEI-12/4.2-Q12P-C	UEI-50/60		
								2kV	91%															2.3	0.9	0.41	58.4	22.9	10.4	ULE-12/4.2-D24P-C	ULE 20A
	48V	36V			75V	2.25kV	92%															2.3	0.9	0.37	58.4	22.9	9.4	UCE-12/4.2-D48N-C	UCE		
							92%																2.3	1.45	0.4	58.4	36.8	10.2	UCQ-12/4.2-D48N-C	UCQ	
	4.5A	54W	18V	75V	2.25kV	91%														0.91	1.31	0.36	23.1	33.27	9.14	UWS-12/4.5-Q48	UWS				
						91%																	1.95	1.55	0.375	49.5	39.4	9.5	UEI-12/5-Q48N-C	UEI-50/60	
	5A	60W	36V	75V	2.25kV	91%															1.3	0.4	0.9	33.02	10.16	22.86	ULS-12/5-D48N-C	ULS			
						91.5%																	2.3	0.38	0.9	58.4	9.7	22.9	UWE-12/6-Q12P-C	UWE	
	6A	72W	48V	18V	75V	2.25kV	91%													2.3	0.38	0.9	58.4	9.7	22.9	UWE-12/6-Q48N-C					
							89%																	2.22	1.45	0.43	56.4	36.8	10.9	UQQ-12/8-Q12P-C	UQQ7-15A
	8A	96W	24V	18V	75V	2.25kV	90.5%														2.3	1.45	0.38	58.4	36.8	9.5	ULQ-12/8-D24P-C	ULQ-15A			
							90%																	2.3	1.45	0.42	58.4	36.8	10.7	UVQ-12/8-D24P-C	UVQ
							88.5%																		2.22	1.45	0.43	56.4	36.8	10.9	UQQ-12/8-Q48N-C
	8.3A	99.6W	36V	75V	2.25kV	90%															2.3	0.9	0.37	58.4	22.9	9.4	UCE-12/8.3-D48N-C	UCE			
						91%																	2.3	1.45	0.4	58.4	36.8	10.2	UCQ-12/8.3-D48N-C	UCQ	
						92%																		1.3	0.9	0.4	33	22.9	10.2	ULS-12/8.3-D48	ULS-100W
	10A	120W	18V	75V	2.25kV	91.5%															2.3	0.9	0.39	58.4	22.9	9.9	UWE-12/10-Q48-C	UWE-100-120W			
						90%																		2.3	0.9	0.4	58.4	22.9	10.2	UCE-12/10-D48	UCE
	10A	120W	36V	75V	2.25kV	93%															2.3	1.45	0.38	58.4	36.8	9.5	ULQ-12/10-D48N-C	ULQ-15A			
						93%																		2.3	1.45	0.42	58.4	36.8	10.7	UVQ-12/10-D48N-C	UVQ
	12.5A	150W	36V	75V	2.25kV	92.5%															2.4	2.3	0.4	61	58.4	10.2	UCH-12/12.5-D48N-C	UCH			
						92%																		2.3	1.45	0.46	58.4	36.8	11.7	UWQ-12/17-Q48	UWQ
	17A	204W	18V	75V	2.25kV	94.5%															2.3	0.9	0.4	58.4	22.9	10.2	RBE-12/20-D48	RBE			
93.5%																							2.3	1.45	0.44	58.4	36.8	11.2	HPQ-12/25-D48	HPQ	
25A	300W	36V	75V	2.25kV	93%															2.4	2.3	0.4	61	58.4	10.2	HPH-12/30-D48N-C	HPH				
					96%																		2.3	1.45	0.5	58.4	36.8	12.7	RBQ-12/33-D48	RBQ	

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information										
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com									
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L			W	H							
15V	0.067A	1W	24V	21.6V	26.4V	1kV	67%										0.70	0.5	0.13	17.8	12.7	3.3	NTFS2415MC	NTF							
							78%															0.39	0.45	0.27	9.8	11.5	6.8	MEE1S2415DC	MEE1		
							87.5%																0.24	0.45	0.39	6	11.5	10		MEE1S2415SC	
							88%																0.24	0.77	0.39	6	19.5	10	MER1S2415SC	MER1	
							80%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S2415MC	MTE1
																								0.39	0.45	0.27	9.8	11.5	6.8	NME2415DC	NME2
																								0.24	0.45	0.39	6	11.5	10	NME2415SC	
																									0.24	0.77	0.39	6	19.5	10	NMR120C
							84%	83%	3kV															0.39	0.77	0.27	9.8	19.5	6.8	MEV1S2415DC	MEV1
																													0.24	0.77	
	48V	43.2V	52.8V	1kV				62%										0.39	0.77	0.26	9.8	19.5	6.8	NMF2415DC	NMF						
																							0.24	0.77		0.39	6	19.5	10	NMF2415SC	
				3kV				83%										0.24	0.77	0.39	6	19.5	10	MER1S4815SC	MER1						
								82.5%															0.24	0.77	0.39	6	19.5	10	MEV1S4815SC	MEV1	
	0.10A	1.5W	12V	10.8V	13.2V	8kV	75%										1.27	0.81	0.4	32.3	20.5	10.2	PWR1308AC	PWR13XXC							
	0.134A	2W	5V	4.5V	5.5V	1kV	73%											0.36	0.86	0.44	9.2	21.8	11.1	NDL0515SC	NDL						
							85%															0.30	0.77	0.4	7.5	19.5	10	NMG0515SC	NMG		
							83%																0.30	0.55	0.39	7.5	14	10	NML0515SC	NML	
							85%																0.30	0.77	0.4	7.5	19.5	10	NMK0515SAC	NMK	
							79%																0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0515SC	MEJ2	
			12V	10.8V	13.2V	1kV	81%													0.36	0.86	0.44	9.2	21.8	11.1	NDL1215SC	NDL				
85%																					0.30	0.77	0.4	7.5	19.5	10	NMG1215SC	NMG			
85%																						0.295	0.55	0.39	7.5	14	10	NML1215SC	NML		
84%																						0.30	0.77	0.4	7.5	19.5	10	NMK1215SAC	NMK		
80%																						0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1215SC	MEJ2		
15V			13.5V	16.5V	3kV	88%													0.30	0.77	0.4	7.5	19.5	10	NMK1515SAC	NMK					
						78%															0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1515SC	MEJ2			
						83%																0.36	0.86	0.44	9.2	21.8	11.1	NDL2415SC	NDL		
						88%																0.30	0.77	0.4	7.5	19.5	10	NMK2415SAC	NMK		
24V			18V	26.4V	3kV	88%													0.30	0.77	0.4	7.5	19.5	10	NDL4815SC	NDL					
48V			36V	72V	1kV	82%													0.36	0.86	0.44	9.2	21.8	11.1	NDL4815SC	NDL					
0.2A	3W	5V	4.5	5.5	1kV	88%											0.56	0.32	0.4	14.15	8.15	10.15	MEE3S0515SC	MEE3							
						87.5%															0.24	0.77	0.39	6	19.5	10	MEV3S0515SC	MEV3			
						77%	73%	9V	1kV													0.58	1.27	0.28	14.7	32.3	7	NDTS0515C	NDTS		
																									0.58	1.27	0.28	14.7	32.3	7	NDY0515C
						79%	79%	9V	18V	1kV												0.58	1.27	0.28	14.7	32.3	7	NDTS1215C	NDTS		
																										0.58	1.27	0.28	14.7	32.3	7
		10.8V	13.2V	1kV	89%														0.56	0.32	0.4	14.15	8.15	10.15	MEE3S1215SC	MEE3					
					89%															0.24	0.77	0.39	6	19.5	10	MEV3S1215SC	MEV3				
		24V	18V	36V	1kV	84%													0.58	1.27	0.28	14.7	32.3	7	NDTS2415C	NDTS					
						82%																0.58	1.27	0.28	14.7	32.3	7	NDY2415C	NDY		
		48V	36V	72V	1kV	80%													0.58	1.27	0.28	14.7	32.3	7	NDTS4815C	NDTS					
						81%																0.58	1.27	0.28	14.7	32.3	7	NDY4815C	NDY		
		0.267A	4W	5V	4.5V	5.5V	8kV	80%											2	1	0.4	50.8	25.4	10.2	HB04U05515QC	HB04UC					
87%																					2	1	0.4	50.8	25.4		10.2	HB04U12515QC			
87%																						2	1	0.4	50.8		25.4	10.2	HB04U15515QC		
0.4A	6W	24V	18V	36V	1.5kV	87%										1.26	0.79	0.39	32	20	10	NDS6S2415C	NDS6								
0.67A	10W	24V	18V	36V	1.5kV	86%											0.98	1.26	0.39	25	32	10	NPH10S2415EIC	NPH10S							
																					0.98	1.26	0.39		25	32	10	NPH10S2415IC			
1A	15W	12V	10V	18V	1.5kV	85%											2	1	0.49	50.8	25.4	12.5	UWR-15/1000-D12A-C	UWR 15W							
						87%															0.98	1.97	0.39	25	50	10	NPH15S2415EIC	NPH15S			
		87%																0.98	1.97	0.39	25	50	10	NPH15S2415IC							
		48V	36V	75V	1.5kV	89%													0.98	1.97	0.39	25	50	10	NPH15S4815EIC	NPH15S					
						87%															0.98	1.97	0.39	25	50		10	NPH15S4815IC			
																	2	1	0.49	50.8	25.4	12.5	UWR-15/1000-D48A-C	UWR 15W							
1.1A	16.5W	24V	9V	36V	1.6kV	84%											1	1	0.41	25.4	25.4	10.4	SPM15-150-Q12	SPM15							
						85%															1.1	0.96	0.36	27.9	24.4	9.1	UEI15-150-Q12	UEI 15W			
		48V	18V	75V	1.6kV	84.5%												1	1	0.41	25.4	25.4	10.4	SPM15-150-Q48	SPM15						
						85.3%															1.1	0.96	0.36	27.9	24.4	9.1	UEI15-150-Q48	UEI 15W			

Single Output Isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information						
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com					
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H				
15V	1.7A	25W	24V	18V	36V	1.5kV	87%											1.38	1.97	0.39	35	50	10	NPH25S2415EIC	NPH25S			
																		1.38	1.97	0.39	35	50	10	NPH25S2415IC				
	2A	30W	12V	9V	18V	1.5kV	89%												2	1.6	0.4	50.8	40.6	10.2	UHE-15/2000-D12-C	UHE 12-30W		
						1.5kV	92%												2	1.6	0.4	50.8	40.6	10.2	UHE-15/2000-Q12-C			
			24V	9V	36V	2.25kV	89%													1.92	0.35	0.92	48.8	8.9	23.4	UEI30-150-Q12P-C	UEI30	
				18V	36V	1.5kV	90%														2	1.6	0.4	50.8	40.6	10.2	UHE-15/2000-D24-C	UHE 12-30W
				18V	75V	1.5kV	90.5%														2	1.6	0.4	50.8	40.6	10.2	UHE-15/2000-Q48-C	UHE 12-30W
						2.25kV	89.5%														1.92	0.35	0.92	48.8	8.9	23.4	UEI30-150-Q48N-C	UEI30
				36V	75V	1.5kV	92%												2	1.6	0.4	50.8	40.6	10.2	UHE-15/2000-D48-C	UHE 12-30W		
						2.25kV	89%												0.9	1.3	0.36	22.9	33.02	9.14	ULS-15/2-D48	ULS-30W		
	3.3A	49.5W	24V	9V	36V	2.25kV	90%												1.95	1.55	0.375	49.5	39.4	9.5	UEI-15/3.3-Q12P-C	UEI-50/60		
	4A	60W	48V	18V	75		89.3%												1.95	1.55	0.375	49.5	39.4	9.5	UEI-15/4-Q48N-C			
5A	75W	12V	9V	36	2.25kV	91.5%												2.3	0.38	0.9	58.4	9.7	22.9	UWE-15/5-Q12P-C	UWE			
6.7A	100.5W	48V	36V	75V	2.25kV	92%												2.4	2.3	0.4	61	58.4	10.2	UCH-15/6.7-D48N-C	UCH			
																			2.3	1.45	0.4	58.4	36.8	10.2	UCQ-15/6.7-D48N-C	UCQ		
7A	105W	12V	9V	36V	2kV	90.5%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-15/7-Q12P-C	UQQ7-15A			
		24V	18V	36V	2kV	93%													2.3	1.45	0.42	58.4	36.8	10.7	UVQ-15/7-D24P-C	UVQ		
		48V	36V	75V	2.25kV	94%													2.3	1.45	0.42	58.4	36.8	10.7	UVQ-15/7-D48N-C			
18V	5.6A	100.8W	24V	18V	36V	2kV	90%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-18/5.6-D24P-C	UVQ			
	6A	108W	48V	36V	75V	2.25kV	93%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-18/6-D48N-C				
24V	0.042A	1W	5V	4.5V	5.5V	1kV	80%											0.39	0.45	0.27	9.8	11.5	6.8	NME0524DC	NME			
																		0.24	0.45	0.39	6	11.5	10	NME0524SC				
	0.625A	15W	N/A	16V	160V	4kV	78%												2	2	0.79	50.8	50.8	20	RUW15SL24C	RUW15		
							77%												2	2	0.79	50.8	50.8	20	RUW15SL24HC			
	3A	72W	12V	9V	36V	2.25kV	89.5%												2.3	0.38	0.9	58.4	9.7	22.9	UWE-24/3-Q12P-C	UWE		
			48V	36V	75V		94%													2.3	0.9	0.41	58.4	22.9	10.4	ULE-24/3-D48N-C	ULE20A	
4A	96W	12V	9V	36V	2kV	89%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-24/4-Q12P-C	UQQ 7-15A			
4.5A	108W	24V	18V	36V	2kV	94%												2.3	1.45	0.42	58.4	36.8	10.7	UVQ-24/4.5-D24P-C	UVQ			
		48V	36V	75V	2.25kV	94%													2.3	1.45	0.42	58.42	36.8	10.7		UVQ-24/4.5-D48N-C		
28V	12.5A	350W	48V	36V	75V	2.25kV	93%											2.3	2.4	0.5	58.4	60.9	12.7	PAH-28/12.5-D48	PAH-28V, 350W			
	16A	450W					93.5%											2.3	2.4	0.5	58.4	60.9	12.7	PAH-28/16-D48	PAH-28V, 450W			
29V	5	150W	48V	36V	75V	2.25kV	92.5%											2.3	1.45	0.46	58.42	36.8	11.7	PAQ-29/5-D48-C	PAQ			
29.8V	3.3A	98.34W	48V	36V	75V	1.5kV	92.5%											2.3	0.9	0.44	58.4	22.9	11.1	PAE-29/3-D48	PAE			
48V	1.25A	60W	48V	36V	75V	2.25kV	92.5%											2.3	0.9	0.41	58.4	22.9	10.4	ULE-48/1.25-D48N-C	ULE20A			
	2.5A	120W					91.5%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-48/2.5-D48N-C	UVQ			
	8.5A	408W					94%											2.3	2.4	0.5	58.4	60.9	12.7	PAH-48/8.5-D48	PAH-53V, 450W			
53V	8.5A	450W	48V	36V	75V	2.25kV	94%											2.3	2.4	0.5	58.4	60.9	12.7	PAH-53/8.5-D48	PAH-53V, 450W			
54V	3A	162W	48V	18V	72V	2.25kV	91.5%											2.4	2.3	0.43	61.0	58.4	10.92	EMH-54/3-Q48N-C	EMH			
96V	0.10	9.600	48V	36V	75V	1.5kV	88%											2	1	0.4	50.8	25.4	10.2	UWR-96/100-D48A-C	UWR-96-100			

Dual Output

Bipolar Isolated DC-DC Converters



For analog/linear and other applications requiring bipolar/symmetric rail voltages, Murata Power Solutions' isolated duals generate $\pm 3.3V$, $\pm 5V$, $\pm 12V$ or $\pm 15V$ outputs from a single input voltage. Not surprisingly, our offering is the industry's broadest.

We offer bipolar duals with output power ranges from 0.75 to 20 Watts, input voltage ranges from 3 to 75 Volts, and package styles from sub-miniature SIPs, DIPs and SMDs to traditional 2" x 2" (51 x 51mm) through-hole devices. Isolation voltages run as high as 8,000Vdc. When relevant, all products offer

UL/EN safety certifications, CE marks, and EMI/EMC testing.

If your available voltage is anywhere between 3.3 and 75 Volts and your need is $\pm 3.3V$, $\pm 5V$, $\pm 12V$ or $\pm 15V$ at moderate power levels – in a small area – we've got your solution.

Quick Selection Guide Listed by output power

	Vout					Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	
1W		•	•	•	•	MEA1
		•	•	•	•	MTU1
		•	•	•	•	NKA
		•	•	•	•	NMA
		•	•	•	•	NMJ
		•	•	•	•	NMV
		•	•	•	•	NTA
		•	•	•	•	NTV
1.5W		•		•		PWR13XXC
				•		PWR1726AC

	Vout					Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	
2W	•	•	•	•	•	MEJ2
	•	•	•	•	•	NMH
	•	•	•	•	•	NMK
	•	•	•	•	•	NMS
	•	•	•	•	•	NTH
3W			•	•		NDH
	•	•	•	•		NDTD
				•		PWR70C
4W	•		•			HB04UC

	Vout					Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	
5W				•		PWR1546AC
6W	•		•	•		NCS6
	•		•	•		NDS6
15W	•		•	•		BEI
	•					BWR 15-17W
17W			•	•		BWR 15-17W

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information		
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			1/8	1/4	1/2	SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com
															L	W	H	L	W	H		
$\pm 3.3V$	$\pm 0.152A$	1W	3.3V	2.97V	3.63V	3kV	74%				•	•		0.39	0.77	0.21	9.8	19.5	5.4	NKA0303DC	NKA	
						1kV	75%				•	•		0.23	0.65	0.3	6.0	16.6	7.6	NKA0303SC		
			5V	4.5V	5.5V	3kV	77%				•	•			0.39	0.77	0.21	9.8	19.5	5.4	NKA0503DC	NKA
						1kV	77%				•	•		0.23	0.65	0.3	6	16.6	7.6	NKA0503SC		
	$\pm 0.303A$	2W	5V	4.5V	5.5V	5.2kV	71%				•	•		0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D0503SC	MEJ2	
			12	10.8V	13.2V	5.2kV	75%				•	•		0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1203SC		
	$\pm 0.454A$	3W	5V	4.5V	9V	1kV	67%				•	•		0.58	1.27	0.27	14.7	32.3	7.0	NDTD0503C	NDTD	
			12V	9V	18V	1kV	73%				•	•		0.58	1.27	0.27	14.7	32.3	7.0	NDTD1203C		
			24V	18V	36V	1kV	73%				•	•		0.58	1.27	0.27	14.7	32.3	7.0	NDTD2403C		
			48V	36V	75V	1kV	72%				•	•		0.58	1.27	0.27	14.7	32.3	7.0	NDTD4803C		
$\pm 5V$	$\pm 0.1A$	1W	3.3V	2.97V	3.63V	1kV	83%				•			0.323	0.331	0.335	8.2	8.4	8.5	MTU1D0305MC	MTU1	
						78%				•			0.30	0.60	0.26	7.7	15.2	6.6	NTA0305MC			
						3kV	79%				•	•		0.39	0.77	0.21	9.8	19.5	5.4	NKA0305DC	NKA	
						79%				•	•		0.23	0.65	0.30	6.0	16.6	7.6	NKA0305SC			

Dual Output Bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information							
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks			SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com						
								1/8	1/4	1/2					L	W	H	L	W	H								
±5V	±0.1A	1W	5V	4.5V	5.5V	1kV	85%						0.39	0.77	0.27	9.8	19.5	6.8	MEA1D0505DC	MEA1								
							84%						0.24	0.77	0.39	6.0	19.5	10.0	MEA1D0505SC	MEA1								
												0.323	0.331	0.335	8.2	8.4	8.5	MTU1D0505MC	MTU1									
						3kV	70%						0.39	0.77	0.21	9.8	19.5	5.4	NKA0505DC	NKA								
							80%						0.39	0.77	0.21	9.8	19.5	5.4	NKA0505DEC									
							70%						0.23	0.65	0.30	6.0	16.6	7.6	NKA0505SC									
							80%						0.23	0.65	0.30	6.0	16.6	7.6	NKA0505SEC									
						1kV	69%						0.39	0.77	0.27	9.8	19.5	6.8	NMA0505DC	NMA								
													0.24	0.77	0.39	6.0	19.5	10.0	NMA0505SC									
		5.2kV	60%						0.39	0.77	0.49	9.8	19.5	12.5	NMJ0505SC	NMJ												
		3kV	71.5%						0.39	0.77	0.27	9.8	19.5	6.8	NMV0505DC	NMV												
									0.24	0.77	0.39	6.0	19.5	10.0	NMV0505SC													
			1kV	69%					0.30	0.60	0.26	7.7	15.2	6.6	NTA0505MC	NTA												
		1kV	80%					0.30	0.60	0.26	7.7	15.2	6.6	NTA0505MEC														
		3kV	71%						0.30	0.60	0.26	7.7	15.2	6.6	NTV0505MC	NTV												
		±0.15A	1.5W		12V	10.8V	13.2V	1kV	85%						0.323	0.331	0.335	8.2	8.4	8.5	MTU1D1205MC	MTU1						
									84.5%						0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1205DC	MEA1						
									85%						0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1205SC							
	3kV							74%					0.39	0.77	0.21	9.8	19.5	5.4	NKA1205DC	NKA								
														0.23	0.65	0.30	6.0	16.6	7.6		NKA1205SC							
	1kV							69%						0.39	0.77	0.27	9.8	19.5	6.8	NMA1205DC	NMA							
														0.24	0.77	0.39	6.0	19.5	10.0	NMA1205SC								
	5.2kV							60%						0.39	0.77	0.49	9.8	19.5	12.5	NMJ1205SC	NMJ							
	3kV							71%						0.39	0.77	0.27	9.8	19.5	6.8	NMV1205DC	NMV							
														0.24	0.77	0.39	6.0	19.5	10.0	NMV1205SC								
	1kV							69%						0.30	0.60	0.26	7.7	15.2	6.6	NTA1205MC	NTA							
	3kV							73%						0.30	0.60	0.26	7.7	15.2	6.6	NTV1205MC								
	±0.2A	2W		15V	13.5V	16.5V	1kV	84%						0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1505DC	MEA1							
														0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1505SC								
								71%						0.39	0.77	0.27	9.8	19.5	6.8	NMA1505DC	NMA							
														0.24	0.77	0.39	6.0	19.5	10.0	NMA1505SC								
							3kV	69						0.24	0.77	0.39	6.0	19.5	10.0	NMV1505SC	NMV							
							24V	21.6V	26.4V	1kV	84.5								0.39	0.77	0.27	9.8	19.5	6.8	MEA1D2405DC	MEA1		
																		0.24	0.77	0.39	6.0	19.5	10.0	MEA1D2405SC				
							48V	43.2V	52.8V	1kV	80%								0.24	0.77	0.39	6.0	19.5	10.0	MEA1D4805SC	MEA1		
	±0.3A		3W		12V	10V	13.2V	8kV	75%						1.27	0.81	0.4	32.3	20.5	10.2	PWR1309AC	PWR13XXC						
															1.27	0.81	0.4	32.3	20.5	10.2	PWR1309AC							
										5V	4.5V	5.5V	1kV	80%							0.39	0.77	0.30	9.8	19.5	7.7	NMH0505DC	NMH
																				0.30	0.77	0.40	7.5	19.5	10.0	NMH0505SC		
														1kV	80%					0.50	0.70	0.21	12.7	17.8	6.0	NTH0505MC	NTH	
														3kV	83%					0.30	0.77	0.4	7.5	19.5	10	NMK0505SC	NMK	
														5.2kV	76%					0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D0505SC	MEJ2	
													6kV	74%					0.58	1.28	0.37	14.7	32.6	9.4	NMS0505C	NMS		
12V	10.8V		13.2V	1kV	80%												0.39	0.77	0.30	9.8	19.5	7.7	NMH1205DC	NMH				
															0.30	0.77	0.40	7.5	19.5	10.0	NMH1205SC							
					1kV	80%									0.50	0.70	0.21	12.7	17.8	6.0	NTH1205MC	NTH						
					3kV	84%									0.30	0.77	0.4	7.5	19.5	10	NMK1205SC	NMK						
	5.2kV		79%					0.5					0.77	0.39	12.7	19.7	10.0	MEJ2D1205SC	MEJ2									
	6kV		78%					0.58					1.28	0.37	14.7	32.6	9.4	NMS1205C	NMS									
15V	13.5V		16.5V	3kV	84%												0.30	0.77	0.4	7.5	19.5	10	NMK1505SC	NMK				
															0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1505SC	MEJ2						
24V	21.6V	26.4V	1kV	81%												0.39	0.77	0.30	9.8	19.5	7.7	NMH2405DC	NMH					
														0.30	0.77	0.40	7.5	19.5	10.0	NMH2405SC								
	3kV	84%										0.30	0.77	0.4	7.5	19.5	10	NMK2405SC	NMK									
48V	43V	52.8V	1kV	82%								0.39	0.77	0.303	9.8	19.5	7.7	NMH4805DC	NMH									
										0.3	0.77	0.4	7.5	19.5	10.0	NMH4805SC												
±0.3A	3W		12V	9V	18V	1kV	75%						0.58	1.27	0.27	14.7	32.3	7	NDTD1205C	NDTD								
													0.58	1.27	0.27	14.7	32.3	7	NDTD2405C									
													0.58	1.27	0.27	14.7	32.3	7	NDTD4805C									

Dual Output Bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information										
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com									
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W	H											
±9V	±0.111A	2W	48V	43.2V	52.8V	1kV	82%										0.39	0.77	0.3	9.8	19.5	7.7	NMH4809DC	NMH							
																										0.3	0.77	0.4	7.5	19.5	10
±12V	±0.042A	1W	3.3V	2.97V	3.63V	3kV	78%										0.39	0.77	0.21	9.8	19.5	5.4	NKA0312DC	NKA							
						1kV	77%														0.23	0.65	0.3		6	16.6	7.6	NKA0312SC			
																						0.3	0.6	0.26	7.7	15.2	6.6	NTA0312MC	NTA		
																						0.39	0.77	0.27	9.8	19.5	6.8	MEA1D0512DC	MEA1		
																						0.24	0.77	0.39	6.0	19.5	10.0	MEA1D0512SC			
																						0.323	0.331	0.335	8.2	8.4	8.5	MTU1D0512MC	MTU1		
			5V	4.5V	5.5V	1kV	87%												0.39	0.77	0.21	9.8	19.5	5.4	NKA0512DC	NKA					
																					0.23	0.65	0.3	6	16.6		7.6	NKA0512SC			
																						0.39	0.77	0.27	9.8	19.5	6.8	MEA0512DC	MEA1		
																						0.24	0.77	0.39	6	19.5	10	MEA0512SC			
																						0.323	0.331	0.335	8.2	8.4	8.5	MTU0512MC	MTU1		
																						0.39	0.77	0.27	9.8	19.5	6.8	NMA0512DC	NMA		
																						0.24	0.77	0.39	6	19.5	10	NMA0512SC			
																						0.39	0.77	0.49	9.8	19.5	12.5	NMJ0512SC	NMJ		
																						0.39	0.77	0.27	9.8	19.5	6.8	NMV0512DC	NMV		
																						0.24	0.77	0.39	6	19.5	10	NMV0512SC			
			12V	10.8V	13.2V	1kV	77%												0.3	0.6	0.26	7.7	15.2	6.6	NTA0512MC	NTA					
						3kV	79%														0.3	0.6	0.26	7.7	15.2	6.6	NTV0512MC	NTV			
																					0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1212DC	MEA1			
																					0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1212SC				
																						0.323	0.331	0.335	8.2	8.4	8.5	MTU1D1212MC	MTU1		
																						0.39	0.77	0.21	9.8	19.5	5.4	NKA1212DC	NKA		
																						0.23	0.65	0.30	6	16.6	7.6	NKA1212SC			
																						0.39	0.77	0.27	9.8	19.5	6.8	NMA1212DC	NMA		
																						0.24	0.77	0.39	6	19.5	10	NMA1212SC			
																						0.39	0.77	0.49	9.8	19.5	12.5	NMJ1212SC	NMJ		
			15V	13.5V	16.5V	1kV	75%												0.39	0.77	0.27	9.8	19.5	6.8	NMV1212DC	NMV					
																					0.24	0.77	0.39	6	19.5		10	NMV1212SC			
																					0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1512DC	MEA1			
																						0.24	0.77	0.39	6.0	19.5	10.0		MEA1D1512SC		
																						0.39	0.77	0.27	9.8	19.5	6.8	NMA1512DC	NMA		
																						0.24	0.77	0.39	6	19.5	10	NMA1512SC			
																						0.39	0.77	0.27	9.8	19.5	6.8	MEA1D2412DC	MEA1		
																						0.24	0.77	0.39	6.0	19.5	10.0	MEA1D2412SC			
																						0.39	0.77	0.27	9.8	19.5	6.8	MEA1D4812SC	MEA1		
						±0.063A	1.5W	5V	4.5V	5.5V	8kV	75%										1.27	0.81	0.4	32.3	20.5	10.2	PWR1304AC	PWR13XXC		
			12V	10.8V	13.2V			8kV	75%										1.27	0.81	0.4	32.3	20.5	10.2	PWR1310AC						
			±0.083A	2W	5V	4.5V	5.5V	1kV	82%										0.39	0.77	0.3	9.8	19.5	7.7	NMH0512DC	NMH					
																							0.3	0.77	0.4		7.5	19.5	10	NMH0512SC	
																								0.30	0.77	0.4	7.5	19.5	10	NMK0512SC	NMK
																								0.58	1.28	0.37	14.7	32.6	9.4	NMS0512C	NMS
																					0.5	0.7	0.21	12.7	17.8	6.0	NTH0512MC	NTH			
12V	10.8V	13.2V			1kV	84%											0.39	0.77	0.30	9.8	19.5	7.7	NMH1212DC	NMH							
																				0.3	0.77	0.4	7.5		19.5	10	NMH1212SC				
																					0.30	0.77	0.4	7.5	19.5	10	NMK1212SC	NMK			
																					0.58	1.28	0.37	14.7	32.6	9.4	NMS1212C	NMS			
																		0.5	0.7	0.21	12.7	17.8	6.0	NTH1212MC	NTH						
15V	13.5V	16.5V			3kV	88%											0.30	0.77	0.4	7.5	19.5	10	NMK1512SC	NMK							
24V	21.6V	26.4V			1kV	86%											0.39	0.77	0.3	9.8	19.5	7.7	NMH2412DC	NMH							
																				0.3	0.77	0.4	7.5		19.5	10	NMH2412SC				
24V	21.6V	26.4V			3kV	89%											0.30	0.77	0.4	7.5	19.5	10	NMK2412SC	NMK							
48V	43.2V	52.8V	1kV	85%											0.39	0.77	0.3	9.8	19.5	7.7	NMH4812DC	NMH									
																		0.3	0.77	0.4	7.5		19.5	10	NMH4812SC						

Dual Output Bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information	
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks		SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com
								1/8	1/4					1/2	L	W	H	L	W		
±12V	±0.13A	3W	5V	4.5V	9V	1kV	76%						0.58	1.27	0.27	14.7	32.3	7	NDTD0512C	NDTD	
			12V	9V	18V	1kV	78%							0.58	1.27	0.27	14.7	32.3	7	NDTD1212C	NDTD
			24V	18V	36V	1kV	81%							0.36	1.02	0.49	9.3	26	12.5	NDH2412SC	NDH
			48V	36V	75V	1kV	82%							0.58	1.27	0.27	14.7	32.3	7	NDTD2412C	NDTD
		±0.167A	4W	15V	13.5V	16.5V	8kV	88%					2	1	0.4	50.8	25.4	10	HB04U15D12QC	HB04UC	
	12V			9V	36V	1.5kV	86%							1.26	0.79	0.39	32	20	10	NCS6D1212C	NCS6
		±0.25A	6W	24V	18V	36V	1.5kV	87%					1.26	0.79	0.39	32	20	10	NDS6D2412C	NDS6	
	48V			18V	75V	1.5kV	84%						1.26	0.79	0.39	32	20	10	NCS6D4812C	NCS6	
	24V			9V	36V	2.25kV	86%							1.1	0.35	0.96	27.9	8.9	24.4	BEI15-120-Q12	BEI15-Series
	48V	18V	75V	2.25kV	85.5%							1.1	0.35	0.96	27.9	8.9	24.4	BEI15-120-Q48			
		±0.73A	17W	12V	10V	18V	1.5kV	83.5%					2	1	0.47	50.8	25.4	11.8	BWR-12/725-D12A-C	BWR 15-17W A-Series	
	24V			18V	36V	1.5kV	85%						2	1	0.47	50.8	25.4	11.8	BWR-12/725-D24A-C		
	48V			36V	75V	1.5kV	86%						2	1	0.47	50.8	25.4	11.8	BWR-12/725-D48A-C		
		±0.84A	2W	5V	4.5V	5.5V	5.2kV	80%						0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D0512SC	MEJ2
	12			10.8V	13.2V	5.2kV	81%							0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1212SC	
	15V			13.5V	16.5V	5.2kV	80%							0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1512SC	

±15V	±0.033A	1W	3.3V	2.97V	3.63V	3kV	79%						0.39	0.77	0.21	9.8	19.5	5.4	NKA0315DC	NKA		
						1kV	77%					0.23	0.65	0.30	6	16.6	7.6	NKA0315SC				
						5V	4.5V	5.5V	1kV	87.5%					0.39	0.77	0.27	9.8	19.5	6.8	MEA1D0515DC	MEA1
				87%								0.24	0.77	0.39	6.0	19.5	10.0	MEA1D0515SC				
				88%								0.323	0.331	0.335	8.2	8.4	8.5	MTU1D0515MC				
				79%								0.39	0.77	0.21	9.8	19.5	5.4	NKA0515DC				
															0.23	0.65	0.30	6.0	16.6	7.6	NKA0515SC	
									1kV	78%					0.39	0.77	0.27	9.8	19.5	6.8	NMA0515DC	NMA
									5.2kV	65%					0.24	0.77	0.39	6.0	19.5	10.0	NMA0515SC	
									3kV	79%					0.39	0.77	0.27	9.8	19.5	6.8	NMJ0515SC	NMJ
															0.39	0.77	0.27	9.8	19.5	6.8	NMV0515DC	
															0.24	0.77	0.39	6.0	19.5	10.0	NMV0515SC	
							1kV	78%					0.30	0.60	0.26	7.7	15.2	6.6	NTA0515MC	NTA		
							3kV	80%					0.30	0.60	0.26	7.7	15.2	6.6	NTV0515MC			
													0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1215DC	MEA1		
							1kV	88%					0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1215SC			
								88%					0.323	0.331	0.335	8.2	8.4	8.5	MTU1D1215MC			
							3kV	82%					0.39	0.77	0.21	9.8	19.5	5.4	NKA1215DC	NKA		
													0.23	0.65	0.30	6.0	16.6	7.6	NKA1215SC			
							1kV	76%					0.39	0.77	0.27	9.8	19.5	6.8	NMA1215DC	NMA		
							5.2kV	65%					0.24	0.77	0.39	6.0	19.5	10.0	NMA1215SC			
							3kV	76%					0.39	0.77	0.27	9.8	19.5	6.8	NMJ1215SC	NMJ		
													0.39	0.77	0.27	9.8	19.5	6.8	NMV1215DC			
													0.24	0.77	0.39	6.0	19.5	10.0	NMV1215SC			
							1kV	76%					0.30	0.60	0.26	7.7	15.2	6.6	NTA1215MC	NTA		
							3kV	82%					0.30	0.60	0.26	7.7	15.2	6.6	NTV1215MC			
								89.5%					0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1515DC	MEA1		
							1kV	80%					0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1515SC			
												0.39	0.77	0.27	9.8	19.5	6.8	NMA1515DC	NMA			
												0.24	0.77	0.39	6.0	19.5	10.0	NMA1515SC				
	±0.033A	1W	15V	13.5V	16.5V	3kV	77%					0.24	0.77	0.39	6.0	19.5	10.0	NMV1515SC	NMV			
					24V	21.6V	26.4V		88%					0.39	0.77	0.27	9.8	19.5		6.8	MEA1D2415DC	
									88.5%					0.24	0.77	0.39	6.0	19.5		10.0	MEA1D2415SC	
			48V	43.2V	52.8V	1kV	83.5					0.24	0.77	0.39	6.0	19.5	10.0	MEA1D4815SC	MEA1			
	±0.05A	1.5W	5V	4.5V	5.5V	8kV	75%					1.27	0.81	0.40	32.3	20.5	10.2	PWR1305AC	PWR13XXC			
					12V	10.8V	13.2V	8kV	75%				1.27	0.81	0.40	32.3	20.5	10.2		PWR1311AC		
					7V	16V	5kV	69%						1.65	1.13	0.41	41.9	28.6		10.3	PWR1726AC	
			15V	13.5V	16.5V	8kV	75%					1.27	0.81	0.40	32.3	20.5	10.2	PWR1317AC	PWR13XXC			

Dual Output Bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information									
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com								
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W	H										
±15V	±0.067A	2W	5V	4.5V	5.5V	1kV	84%											0.39	0.77	0.30	9.8	19.5	7.7	NMH0515DC	NMH					
																						0.30	0.77	0.40		7.5	19.5	10.0	NMH0515SC	
						1kV	84%																0.50	0.70	0.21	12.7	17.8	6.0	NTH0515MC	NTH
						3kV	87%																0.30	0.77	0.4	7.5	19.5	10	NMK0515SC	NMK
						5.2kV	79%																0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D0515SC	MEJ2
			6kV	78%																0.58	1.28	0.37	14.7	32.6	9.4	NMS0515C	NMS			
			12V	10.8V	13.2V	1kV	84%														0.39	0.77	0.30	9.8	19.5	7.7	NMH1215DC	NMH		
																						0.30	0.77	0.40	7.5	19.5	10.0		NMH1215SC	
			1kV			84%																0.50	0.70	0.21	12.7	17.8	6.0	NTH1215MC	NTH	
			3kV			87%																0.30	0.77	0.4	7.5	19.5	10	NMK1215SC	NMK	
			5.2kV			82%																0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1215SC	MEJ2	
			6kV	82%																0.58	1.28	0.37	14.7	32.6	9.4	NMS1215C	NMS			
			15V	13.5V	16.5V	1kV	84%														0.39	0.77	0.40	7.5	19.5	10.0	NMH1515SC	NMH		
			3kV			88%															0.30	0.77	0.4	7.5	19.5	10	NMK1515SC	NMK		
			5.2kV			79%																0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1515SC	MEJ2	
	24V	21.6V	26.4V	1kV	86%														0.39	0.77	0.30	9.8	19.5	7.7	NMH2415DC	NMH				
																				0.30	0.77	0.40	7.5	19.5	10.0		NMH2415SC			
				3kV	89%														0.30	0.77	0.4	7.5	19.5	10	NMK2415SC	NMK				
	48V	43.2V	52.8V	1kV	85%														0.39	0.77	0.30	9.8	19.5	7.7	NMH4815DC	NMH				
	48V	43.2V	52.8V	1kV	85%														0.30	0.77	0.40	7.5	19.5	10.0	NMH4815SC					
	±0.1A	3W	5V	4.5V	9V	1kV	75%												0.58	1.27	0.27	14.7	32.3	7.0	NDTD0515C	NDTD				
			12V	9V	18V	1kV	78%												0.58	1.27	0.27	14.7	32.3	7.0	NDTD1215C	NDTD				
			15V	10V	18V	5kV	66%													1.13	1.13	0.41	28.6	28.6	10.7	PWR70C	PWR70C			
				18V	36V	1kV	82%														0.36	1.02	0.49	9.3	26.0	12.5	NDH2415SC	NDH		
				48V	36V	75V	1kV	81%													0.58	1.27	0.27	14.7	32.3	7.0	NDTD2415C	NDTD		
	±0.133A	4W	12V	10.8V	13.2V	8kV	88%												2.00	1.00	0.40	50.8	25.4	10.2	HB04U12D15QC	HB04UC				
			15V	13.5V	16.5V	8kV	88%													2.00	1.00	0.40	50.8	25.4	10.2		HB04U15D15QC			
	±0.167A	5W	5V	4.5V	5.5V	0.75kV	60%												2.00	2.00	0.40	50.8	50.8	10.2	PWR1546AC	PWR1546A				
	±0.20A	6W	12V	9V	36V	1.5kV	87%												1.26	0.79	0.39	32	20	10	NCS6D1215C	NCS6				
			24V	18V	36V	1.5kV	87.5%												1.26	0.79	0.39	32	20	10	NDS6D2415C	NDS6				
48V			18V	75V	1.5kV	84%												1.26	0.79	0.39	32	20	10	NCS6D4815C	NCS6					
±0.50A	15W	24V	9V	36V	2.25kV	84%												1.1	0.35	0.96	27.9	8.9	24.4	BEI15-150-Q12	BEI15-Series					
		48V	18V	75V	2.25kV	86%												1.1	0.35	0.96	27.9	8.9	24.4	BEI15-150-Q48						
±0.58A	17W	12V	10V	18V	1.5kV	84%												2.00	1.00	0.47	50.8	25.4	11.8	BWR-15/575-D12A-C	BWR 15-17W A-Series					
		24V	18V	36V	1.5kV	86%												2.00	1.00	0.47	50.8	25.4	11.8	BWR-15/575-D24A-C						
		48V	36V	75V	1.5kV	87%												2.00	1.00	0.47	50.8	25.4	11.8	BWR-15/575-D48A-C						

Dual Output

Asymmetric Isolated DC DC Converter Series



When your application requires multiple positive voltages and you can't easily derive one from the other using a non-isolated PoL, consider an asymmetric dual.

Asymmetric duals are isolated, 2-output DC/DC converters that typically provide two low voltages such as 3.3V and 1.8V. As

such, they are ideal for driving the core and I/O logic of complex PLDs or ASICs. On DSL line cards, they can power both the DSP and the line drivers. In evolving process-control systems, they can power older 5V logic and newer 3.3V micros.

Asymmetric duals provide the real estate

and cost savings of a single package with one set of input circuitry (stand-up caps, filters, etc.). On the output side, many duals feature 2-loop designs that effectively deliver two independently regulated converters in a single package . . . with a standard pinout and internationally recognized safety approvals.

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information			
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks		SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com		
								1/8	1/4					1/2	L	W	H	L	W			H	
5/3.3V	2.65/3A	15W	12V	10V	18V	1.5kV	86%						2.00	1.00	0.52	50.8	25.4	13.2	DSM-5/2.65-3.3/3-D12-C	DSM-15W			
			24V	18V	36V	1.5kV	86%							2.00	1.00	0.45	50.8	25.4	11.4		DWR-5/2.65-3.3/3-D12-C		
			24V	18V	36V	1.5kV	88%							2.00	2.00	0.48	50.8	50.8	12.2		BWR-5/3-3.3/4.25-D12A-C		
			48V	36V	75V	1.5kV	88%							2.00	2.00	0.48	50.8	50.8	12.2		BWR-5/3-3.3/4.25-D24A-C		
	3/4.25A	30W	12V	10V	18V	1.5kV	85%						2.00	2.00	0.48	50.8	50.8	12.2	BWR-5/3-3.3/4.25-D12A-C		BWR-5/3.3 30W		
			24V	18V	36V	1.5kV	88%						2.00	2.00	0.48	50.8	50.8	12.2	BWR-5/3-3.3/4.25-D24A-C				
			48V	36V	75V	1.5kV	88%						2.00	2.00	0.48	50.8	50.8	12.2	BWR-5/3-3.3/4.25-D48A-C				
			12V	10V	18V	1.5kV	86%							2.00	2.00	0.45	50.8	50.8	11.4			BWR-5/6-3.3/7-D12-C	
	6/7A	33W	24V	18V	36V	1.5kV	88%						2.00	2.00	0.45	50.8	50.8	11.4	BWR-5/6-3.3/7-D24-C		BWR-5/3.3 33W		
			48V	36V	75V	1.5kV	88%						2.00	2.00	0.45	50.8	50.8	11.4	BWR-5/6-3.3/7-D48-C				
			5V	4.5V	5.5V	1.0kV	70%							0.39	0.77	0.27	9.8	19.5	6.8			NMD050505DC	NMD
			5V	4.5V	5.5V	1.0kV	80%							0.24	0.77	0.39	6.0	19.5	10.0			NMD050505SC	
5/9V	0.1/0.056A	1W	5V	4.5V	5.5V	1.0kV	80%						0.39	0.77	0.27	9.8	19.5	6.8	NMD050509DC	NMD			
			12V	10.8V	13.2V	1.0kV	80%							0.24	0.77	0.39	6.0	19.5	10.0		NMD050509SC		
5/12V	0.1/0.042A	1W	5V	4.5V	5.5V	1.0kV	80%						0.24	0.77	0.39	6.0	19.5	10.0	NMD050512SC	NMD			
			12V	10.8V	13.2V	1.0kV	80%							0.24	0.77	0.39	6.0	19.5	10.0		NMD120512SC		
5/15V	0.1/0.034A	1W	5V	4.5V	5.5V	1.0kV	80%						0.24	0.77	0.39	6.0	19.5	10.0	NMD050515SC	NMD			
			12V	10.8V	13.2V	1.0kV	80%							0.39	0.77	0.27	9.8	19.5	6.8		NMD120515DC		
			12V	10.8V	13.2V	1.0kV	80%							0.24	0.77	0.39	6.0	19.5	10.0		NMD120515SC		

Triple Output

Isolated DC to DC Converters



Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information	
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks		SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com
								1/8	1/4					1/2	L	W	H	L	W		
24/48/72V	42/21/14mA	3W	5V	4.5V	5.5V	1.0kV	85%						0.30	0.86	0.44	7.5	21.8	11.1	NMT0572SC	NMT	
			12V	10.8V	13.2V	1.0kV	85%							0.30	0.86	0.44	7.5	21.8	11.1		NMT1272SC

VRM Processor Support

Powering next generation 32-Bit and 64-Bit processors is becoming more demanding, requiring lower output voltages, higher currents, and higher di/dts.

Our VRM products are designed to meet and exceed the performance demanded

by the next generation processors and are available in a variety of packages for an optimal fit in systems <1U to 2U with innovative open-frame designs that allow for better thermal management in today's system environments.



VRM Spec	Output Characteristics			Input Voltage			Efficiency	Package Style									Further Information				
	Thermal Design Current	Max. Output Current	Output Voltage Range (VDC)	Nom.	Min.	Max.		Card Edge	Thru Hole	Height				L	W	H	W	H	Part Number	Datasheet Available at www.murata-ps.com	
										<1U	1U	1.5U	2U								
Intel® 11.1	80A	70A	0.5-1.6	12	11.04	12.6	87%	•		•			3.66	0.75	0.78	92.96	19.05	19.81	VR111B080CA-C	VR111 Series	
	150A	130A	0.5-1.6	12	11.04	12.6	87%	•			•		3.80	0.87	1.18	96.52	22.10	29.97	VR111B150CU-C		
								•				•		3.80	1.00	1.86	96.52	25.40	47.24		VR111B150CL-C
								•					•		3.80	0.87	2.50	96.52	22.10		63.50
Intel® 11.0	80A	70A	0.8375-1.6	12	11.04	12.6	88%	•		•			3.66	0.75	0.78	92.96	19.05	19.81	VR110B080CA-1C	VR110 Series	
							84%	•			•		3.80	0.475	1.18	96.52	12.07	29.97	VR110B080CU-1C		
	150A	130A	0.8375-1.6	12	11.04	12.6	84%	•			•		3.80	0.87	1.18	96.52	22.10	29.97	VR110B150CU-1C		
								•				•		3.80	1.00	1.86	96.52	25.40	47.24		VR110B150CL-1C
	80A	70A	0.81875-1.6	12	11.04	12.6	87%	•	•		•		3.80	0.46	1.19	96.49	11.70	30.15	VR111EB080CU-1C	VR111C & VR11E Series	
								•	•		•		3.80	0.46	1.19	96.49	11.70	30.15	VR111CB080CE-1C		
								•	•		•		3.80	0.46	1.19	96.49	11.70	30.15	VR111CB080CU-1C		
								•	•		•		3.80	0.92	1.19	96.49	23.20	30.15	VR111CB150CU-1C		
150A	130A	0.81875-1.6	12	11.04	12.6	85%	•	•				3.80	.085	2.41	96.49	21.50	61.15	VR111CB150CS-1C			
							•	•			•		3.80	0.87	1.18	96.52	22.10	29.97	VR102B150CU-3C	VR102 Series	
Intel® 10.1/10.2	150A	130A	0.8375-1.6	12	11.04	12.6	85%	•			•		3.80	0.87	1.18	96.52	22.10	29.97	VR102B150CU-3C		
								•				•		3.80	0.87	2.50	96.52	22.10	63.50	VR102B150CS-2C	

A design-in guide featuring our more popular series

If you need product now, or within shorter lead times, the Selector Guides on the next two pages contain popular models most likely to be found in inventory at our authorized Distributors. With over 3,500 standard part numbers to choose from, there is a chance that our product data book and online search tools may lead you to a model with an availability that is not quite in line with your scheduling requirements. In that case, refer to the following selector tables for a model that could meet your immediate requirements.

Front End Power

We also offer Custom AC-DC options. Contact us for details.

Series	Description	Power Ratings	Input	Output 1	Output 2	Output 3	Efficiency	Features
D1U54P	1U height 54mm width	1200W	90-264 VAC	12VDC	5VDC		94.0%	PFC, Active Current-Share, Hot-Plug, PMBus / I ² C Interface, EMI Class A
D1U2-W D1U2-D	1U height 54mm width	400W	90-264VAC 40-72VDC	12VDC	5VDC		85% 80%	PFC, Active Current-Share, Hot-Plug, PMBus / I ² C Interface, EMI Class A
D1U3CS-W D1U3CS-D	1U height 81mm width	1200W 850W 850W	90-264VAC 90-264VAC 40-72VDC	12VDC	3.3 or 5VDC 3.3VDC 3.3VDC		92% 92% 87%	PFC, Active Current-Share, Hot-Plug, PMBus / I ² C Interface, EMI Class A
D1U86G	1U height 86mm width	460W	90-264 VAC	12VDC	12VDC		92.0%	PFC, Droop Current-Share, Hot-Plug, PMBus / I ² C Interface, EMI Class A
D1U4CS-D	1U height 4" width	2100W	40-72VDC	54VDC 52VDC	5VDC		93.0%	PFC, Droop Current-Share, Hot-Plug, PMBus / I ² C Interface, EMI Class A
D1U4CS-W	1U height 4" width	2200W	90-264 VAC	12VDC	3.3VDC 5VDC		93.0%	PFC, Active Current-Share, Hot-Plug, PMBus / I ² C Interface, EMI Class A
D1U4	1U height 4" width	1600W 1200W	90-264 VAC	12VDC	3.3VDC 5VDC		90.6%	PFC, Active Current-Share, Hot-Plug, PMBus / I ² C Bus, EMI Class A
D1U	1U height 4.75" width	2000W 1600W 1200W	90-264 VAC	12VDC 48VDC	3.3VDC 5VDC 12VDC		90.6%	PFC, Active Current-Share, Hot-Plug, I ² C Bus, EMI Class A
MVAB120	1U height 2" x 4" footprint	120W @ 250LFM 75W Convection Cooling	90-264 VAC	12VDC 24VDC 48VDC			88% 90% 91%	PFC, Compliance to WW safety & EMC standards
MVAD065	1U height 2" x 4" footprint	65W Convection Cooling	90-264 VAC	12VDC 24VDC 48VDC			88% 89% 90%	3rd ed. Medical and ITE safety approved, Remote Sense, ErP Compliant
MVAD040	1U height 2" x 4" footprint	40W Convection Cooling	90-264 VAC	12VDC 24VDC 48VDC			87% 88% 89%	3rd ed. Medical and ITE safety approved, ErP Compliant
MVAC400	1U height 3" x 5" footprint	400W @ 250LFM 250W Convection Cooling	90-264 VAC	12VDC 24VDC 50VDC	Fan Voltage 12V @ 12W	Standby Voltage 5V @ 10W	93% 93% 94%	3rd ed. Medical and ITE safety approved, current share option
MVAC250	1U height 3" x 5" footprint	250W @ 250LFM 170W Convection Cooling	90-264 VAC	12VDC 24VDC 50VDC	Fan Voltage 12V @ 12W	Standby Voltage 5V @ 10W	93% 93% 94%	3rd ed. Medical and ITE safety approved, current share option



Isolated DC-DC



Miniature Industrial Package (Low Power)

See opposite



Industrial Package



Brick Style

PoL

Output Current	5Vin		12Vin		24Vin
	SMT	SIP	SMT	SIP	SMT
1A-1.5A			OKL	OKR	
3A	OKY OKL/OKL2	OKX	OKL OKY	OKR OKX	OKI
5A	OKY	OKX	OKY	OKX	
6A	OKL/OKL2		OKL/OKL2	OKR	
10A	OKY/OKY2	OKX/OKX2	OKY/OKY2	OKR OKX/OKX2	
16A	OKY/OKY2	OKX/OKX2	OKY/OKY2	OKX/OKX2	

Processor Power

Murata Power Solutions offers a range of processor power modules that support both Intel and AMD devices.

- Intel support for VRM 9.1, VRM 10.1/10.2, VRM 11.0 and VRM 11.1
- AMD support for K8 processors

Murata Global Sales Offices

Murata Americas

Murata Electronics N.A., Inc.

Smyrna, GA, USA
Phone: 1-770-436-1300 murataamericas.com/techhelp

Murata Electronics Trading México, S.A. de C.V.

Zapopan, Jalisco, Mexico
Phone: 52-33-3125-3425

Murata World Comercial Ltda.

São Paulo, Brasil
Phone: 55--11-3371-6811

Murata Europe

Murata Electronics Europe B.V.

Hoofddorp, The Netherlands
Phone: +31-23-5698410 E-mail: info@murata.nl

Murata Elektronik GmbH

Nürnberg, Germany
Phone: +49-911-66870 E-mail: info@murata.de

Murata Elektronik GmbH Baden Branch

Mägenwil, Switzerland
Phone: +41-44-949-3040 E-mail: info@murata.ch

Murata Elektronik GmbH Budapest Office

Budapest, Hungary
Phone: +36-1-2053159 E-mail: info@murata.de

Murata Electronique SAS

Robinson Cedex, Paris, France
Phone: +33-1-4094-8300 E-mail: info@murata.fr

Murata Elettronica S.p.A.

Caponago, Monza Brianza, Italy
Phone: +39-02-959681 E-mail: info@murata.it

Murata Electronics Ltd.

Fleet, United Kingdom
Phone: +44-1252-811666 E-mail: enquiry@murata.co.uk

Murata Electronics B.V.

Hoofddorp, The Netherlands
Phone: +31-23-5698410 E-mail: info@murata.nl

Murata Electronics Barcelona Office

Cerdanyola Barcelona, Spain
Phone: +34-93-582-02-59 E-mail: info@murata.nl

Murata Finland Oy

Vantaa, Finland
Phone: +358 9 879181 Email: info@murata.nl

Murata Asia

Murata Manufacturing Company, Ltd.

Tokyo, Japan
Phone: 81-3-5469-6111

Murata Electronics Singapore (Pte.) Ltd.

Phone: 65-6758-4233 E-mail: mes_sales@murata.com.sg

Murata Electronics (Malaysia) Sdn. Bhd. Kuala Lumpur

Kuala Lumpur, Malaysia
Phone: 60-3-2287-7568 E-mail: mes_sales@murata.com.sg

Murata Electronics (Malaysia) Sdn. Bhd. Penang

Penang, Malaysia
Phone: 60-4-229-4258 E-mail: mes_sales@murata.com.sg

Murata Electronics Philippines Inc.

Muntinlupa City, Philippines
Phone: 63-2-836-1569 E-mail: mes_sales@murata.com.sg

Thai Murata Electronics Trading, Ltd.

Bangkok, Kingdom of Thailand
Phone: 66-2-266-0750 E-mail: tmt_sales@murata.com.sg

Murata Electronics (India) Private Limited

Chennai, India
Phone: 91-44-4551-4193 E-mail: mes_sales@murata.com.sg

Murata Electronics (Vietnam) Co., Ltd.

Hanoi, Vietnam
Phone: 84-4-2-220-6617 E-mail: mes_sales@murata.com.sg

Taiwan Murata Electronics Co., Ltd.

Taipei, Taiwan
Phone: 886-2-2356-4218 E-mail: mtb1@murata.co.jp

Murata Co., Ltd.

Kowloon, Hong Kong, China
Phone: 852-2376-3898 E-mail: enquiry@murata.com.hk

Korea Murata Electronics Co., Ltd.

Seoul, Republic of Korea
Phone: 82-2-561-2347 E-mail: msbnt1@soback.kornet21.net

Murata Electronics Trading (Tianjin) Co., Ltd.

Tianjin, P.R.C.
Phone: 86-22-8319-1655 E-mail: mctsales@murata.co.jp

Murata Electronics Trading (Shenzhen) Co., Ltd.

Shenzhen, Guangdong, China
Phone: 86-755-8202-2080 E-mail: enquiry@sz.murata.com.cn

Murata Electronics Trading (Shanghai) Co., Ltd.

Shanghai, China
Phone: 86-21-3205-4626 E-mail: info@sh-murata.com.cn