

MURATA POWER SOLUTIONS DC-DC Converters



RoHS Compliant This product is RoHS compliant.

NPH SERIES, 10-25W ISOLATED SINGLE OUTPUT

- High efficiency to 87%
- 1.5kV input/output isolation
- UL 1950 Recognized (E179522)
- Industry standard pinout
- Operation to zero load
- Protected against load faults
- RoHS Compliant



* With trim and ss pins

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	MPS Part No.	Fig.	Input Volts	Output Volts	I _o (A)	Price Each			
						1	5	10	25
* 580-NPH10S2403IC	NPH10S2403IC	A	24	3.4	2.94	36.14	35.00	34.00	33.75
* 580-NPH10S2403EIC	NPH10S2403EIC	A	24	3.4	2.94	36.14	35.00	34.49	33.75
* 580-NPH10S2405IC	NPH10S2405IC	A	24	5.1	1.96	36.18	36.00	35.76	35.36
* 580-NPH10S2405EIC	NPH10S2405EIC	A	24	5.1	1.96	36.18	36.00	35.76	35.36
* 580-NPH10S2412IC	NPH10S2412IC	A	24	12.1	.83	36.18	36.00	35.76	35.36
* 580-NPH10S2415IC	NPH10S2415IC	A	24	15.1	.67	36.14	35.00	34.00	33.75
* 580-NPH10S4805IC	NPH10S4805IC	A	48	5.1	1.96	36.14	35.00	34.00	33.75
* 580-NPH10S4812IC	NPH10S4812IC	A	48	12.1	.83	36.14	35.00	34.00	33.75
* 580-NPH10S4815IC	NPH10S4815IC	A	48	15.1	.67	36.14	35.00	34.49	33.75
* 580-NPH15S2403IC	NPH15S2403IC	B	24	3.4	4.4	48.13	46.88	45.24	43.77
* 580-NPH15S2405IC	NPH15S2405IC	B	24	5.1	3.0	48.13	47.88	47.55	43.77
* 580-NPH15S2405EIC	NPH15S2405EIC	B	24	5.1	3.0	48.13	46.88	45.24	43.77
* 580-NPH15S2412IC	NPH15S2412IC	B	24	12.1	1.3	48.13	46.88	45.89	43.77
* 580-NPH15S2415IC	NPH15S2415IC	B	24	15.1	1.0	48.13	46.88	45.24	43.77
* 580-NPH15S4805IC	NPH15S4805IC	B	48	5.1	3.0	48.13	46.88	45.89	43.77
* 580-NPH25S2405IC	NPH25S2405IC	C	24	5.1	5	54.98	52.90	51.98	50.93
* 580-NPH25S2412IC	NPH25S2412IC	C	24	12.1	2.1	54.98	52.90	51.98	50.93
* 580-NPH25S2415IC	NPH25S2415IC	C	24	15.1	1.7	54.98	52.90	51.98	50.93
* 580-NPH25S4803IC	NPH25S4803IC	C	48	3.4	7.3	54.98	52.90	51.98	50.93

DATL UEI SERIES, 15-60W ISOLATED SINGLE OUTPUT

- Isolation up to 2250 VDC (basic)
- High efficiency synchronous rectifier forward topology
- Stable no-load operation with no required external components
- -40°C to 85°C temperature range (with derating)
- Extensive self-protection shut down features
- Positive polarity



Surface Mount Version

* Negative polarity

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Datel Part No.	Fig.	Input Volts	Output V	I _o (A)	Price Each		
						1	5	10
* 580-UEI15-033Q12PM-C	UEI15-033-Q12PM-C	D	24(9-36)	3.3	4.5	31.73	31.49	31.12
* 580-UEI15-050Q12PM-C	UEI15-050-Q12PM-C	D	24(9-36)	5	3	36.51	35.86	35.23
* 580-UEI15-150Q12PM-C	UEI15-150-Q12PM-C	D	24(9-36)	15	1.1	31.73	31.49	31.12
* 580-UEI15-050Q48NM-C	UEI15-050-Q48NM-C	D	48(18-75)	5	3	31.46	31.22	30.86
* 580-UEI15-120Q48NM-C	UEI15-120-Q48NM-C	D	48(18-75)	12	1.3	31.46	31.22	30.86
* 580-UEI15-150Q48NM-C	UEI15-150-Q48NM-C	D	48(18-75)	15	1.1	31.46	31.22	30.86
* 580-UEI25-033D48NM-C	UEI25-033-D48NM-C	E	48(36-75)	3.3	7.5	24.35	24.19	24.02
* 580-UEI25-033D48PM-C	UEI25-033-D48PM-C	E	48(36-75)	3.3	7.5	24.85	24.69	24.52
* 580-UEI25-050D48NM-C	UEI25-050-D48NM-C	E	48(36-75)	5	5	24.85	24.69	24.52
* 580-UEI25-050D48PM-C	UEI25-050-D48PM-C	E	48(36-75)	5	5	24.35	24.19	24.02
* 580-UEI25-120D48NM-C	UEI25-120-D48NM-C	E	48(36-75)	12	12	24.35	24.19	24.02
* 580-UEI25-120D48PM-C	UEI25-120-D48PM-C	E	48(36-75)	12	12	24.85	24.69	24.52

Through-Hole Version

* Negative polarity

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Datel Part No.	Fig.	Input Volts	Output V	I _o (A)	Price Each		
						1	5	10
* 580-UEI15-033-Q12P-C	UEI15-033-Q12P-C	D	24(9-36)	3.3	4.5	30.50	30.25	30.00
* 580-UEI15-050-Q12P-C	UEI15-050-Q12P-C	D	24(9-36)	5	3	30.50	30.25	30.00
* 580-UEI15-120-Q12P-C	UEI15-120-Q12P-C	D	24(9-36)	12	1.3	30.50	30.25	30.00
* 580-UEI15-150-Q12P-C	UEI15-150-Q12P-C	D	24(9-36)	15	1.1	31.50	31.24	30.97
* 580-UEI15-050-Q48N-C	UEI15-050-Q48N-C	D	48(18-75)	5	3	28.50	28.27	28.02
* 580-UEI15-120-Q48N-C	UEI15-120-Q48N-C	D	48(18-75)	12	1.3	28.50	28.27	28.02
* 580-UEI25-033-D48N-C	UEI25-033-D48N-C	E	48(36-75)	3.3	7.5	24.00	23.80	23.61
* 580-UEI25-033-D48P-C	UEI25-033-D48P-C	E	48(36-75)	3.3	7.5	24.48	24.30	24.11
* 580-UEI25-050-D48N-C	UEI25-050-D48N-C	E	48(36-75)	5	5	24.48	24.30	24.11
* 580-UEI25-050-D48P-C	UEI25-050-D48P-C	E	48(36-75)	5	5	23.98	23.80	23.61
* 580-UEI25-120-D48N-C	UEI25-120-D48N-C	E	48(36-75)	12	12	23.98	23.80	23.61
* 580-UEI25-120-D48P-C	UEI25-120-D48P-C	E	48(36-75)	12	12	24.48	24.30	24.11
* 580-UEI30-120-Q12P-C	UEI30-120-Q12P-C	F	24(9-36)	12	2.5	46.42	45.13	44.76
* 580-UEI30-150-Q12P-C	UEI30-150-Q12P-C	F	24(9-36)	15	2	47.96	46.62	46.23
* 580-UEI30-050-Q48N-C	UEI30-050-Q48N-C	F	48(18-75)	5	6	42.49	42.15	41.68
* 580-UEI30-150-Q48N-C	UEI30-150-Q48N-C	F	48(18-75)	15	2	48.83	47.99	46.39
* 580-UEI3.3/15Q12PR-C	UEI-3.3/15-Q12PR-C	G	24(9-36)	3.3	15	63.50	62.97	62.46
* 580-UEI5/10-Q12PR-C	UEI-5/10-Q12PR-C	G	24(9-36)	5	10	63.50	62.97	62.46
* 580-UEI12/4.2-Q12P-C	UEI-12/4.2-Q12P-C	G	24(9-36)	12	4.2	67.89	65.98	63.87
* 580-UEI12/5-Q48N-C	UEI-12/5-Q48N-C	G	48(18-75)	12	5	59.50	59.01	58.53

DATL Q48N-C SERIES, 162W ISOLATED HALF-BRICK

- Up to 91.5% efficiency at 54V output (typ.)
- Operational temperature range: -40°C to +85°C with baseplate
- 2250V I/O isolation
- Safety features: UL 60950-1, 2nd edition; CSA-C22-2 No. 60950-1 and IEC/EN60950-1 (pending)



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Datel Part No.	Fig.	Input Volts	Output V	I _o (A)	Price Each		
						1	5	10
* 580-EMH-54/3-Q48N-C	EMH-54/3-Q48N-C	H	48(18-72)	54	3	67.00	66.45	65.90
* 580-EMH-54/3-Q48NB-C	EMH-54/3-Q48NB-C	H	48(18-72)	54	3	68.00	67.95	67.40

* Baseplate installed
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DIMENSIONS: in.

Diagram A: NPH10S2405E1 (10-pin) dimensions: 1.26" width, 0.98" height, 0.394" pin spacing.

Diagram B: NPH15S4812I (10-pin) dimensions: 1.969" width, 0.984" height, 0.394" pin spacing.

Diagram C: NPH25S2405I (10-pin) dimensions: 1.969" width, 1.378" height, 0.394" pin spacing.

Diagram D: DATL UEI15-033-Q12P-C (10-pin) dimensions: 1.1" width, 0.96" height.

Diagram E: DATL UEI15-050-Q12P-C (10-pin) dimensions: 1.1" width, 0.96" height.

Diagram F: DATL UEI25-033-D48N-C (10-pin) dimensions: 1.92" width, 0.92" height.

Diagram G: DATL UEI25-050-D48N-C (10-pin) dimensions: 1.9" width, 1.5" height.

Diagram H: DATL UEI30-120-Q12P-C (10-pin) dimensions: 2.4" width, 2.3" height, 0.43" pin height.

Diagram I: DATL TMP-5/5-12/1-D48 (10-pin) dimensions: 3.04" width, 2.04" height, 0.55" pin height.

DATL TMP SERIES, 25-35W ISOLATED TRIPLE OUTPUT

- Standard pinout, small size
- Efficiencies to 86%



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Datel Part No.	Fig.	Input Volts	Output V	I _o (A)	Price Each		
						1	5	10
* 580-TMP5-12-Q12-C	TMP-5/5-12/1-Q12-C	I	24 (10-36)	5±12	5A±1A	136.85	134.49	132.21
* 580-TMP5-12-D24-C	TMP-5/5-12/1-D24-C	I	24 (18-36)	5±12	5A±1A	140.40	130.00	120.00

DATL BMP SERIES, 39-40W ISOLATED DUAL OUTPUT

- Standard pinout, small size
- Fully isolated, 1500VDC guaranteed
- Efficiencies to 88%
- Meets UL1950/EN60950 (basic insulation)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Datel Part No.	Fig.	Input Volts	Output V	I _o (A)	Price Each		
						1	5	10
* 580-BMP15-1.3-D24-C	BMP-15/1.3-D24-C	I	24 (18-36)	±15	±1.3A	145.51	141.38	133.28

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Murata Power Solutions

DC-DC Converters

