

MURATA POWER SOLUTIONS DC-DC Converters



ULT SERIES, 30W ISOLATED THIRTY-SECOND BRICK

- Low output ripple and noise
- 1500V I/O isolation
- * Negative polarity

RoHS compliant This product is RoHS compliant.



MOUSER STOCK NO.	Date/ Part No.	Fig.	Input Volts (Range)	Output Volts	Output Current	Price Each		
						1	5	10
Through-Hole Version								
* 580-ULT-3.3/7.5D48NC	ULT-3.3/7.5-D48N-C	A	48(36-75)	3.3	7.5A	24.00	23.80	23.61
580-ULT-3.3/7.5D48PC	ULT-3.3/7.5-D48P-C	A	48(36-75)	3.3	7.5A	24.75	24.55	24.36
* 580-ULT-5/5-D48N-C	ULT-5/5-D48N-C	A	48(36-75)	5	5A	24.00	23.80	23.61
580-ULT-5/5-D48P-C	ULT-5/5-D48P-C	A	48(36-75)	5	5A	24.75	24.55	24.36
* 580-ULT-12/2.5-D48NC	ULT-12/2.5-D48N-C	A	48(36-75)	12	2.5A	24.00	23.80	23.61
580-ULT-12/2.5-D48PC	ULT-12/2.5-D48P-C	A	48(36-75)	12	2.5A	24.75	24.55	24.36
Surface Mount Version								
* 580-ULT3.3/7.5D48NMC	ULT-3.3/7.5-D48NM-C	B	48(36-75)	3.3	7.5A	24.50	24.30	24.11
580-ULT3.3/7.5D48PMC	ULT-3.3/7.5-D48PM-C	B	48(36-75)	3.3	7.5A	25.25	25.05	24.86
* 580-ULT-5/5-D48NM-C	ULT-5/5-D48NM-C	B	48(36-75)	5	5A	24.50	24.30	24.11
580-ULT-5/5-D48PM-C	ULT-5/5-D48PM-C	B	48(36-75)	5	5A	25.25	25.05	24.86
* 580-ULT-12/2.5D48NMC	ULT-12/2.5-D48NM-C	B	48(36-75)	12	2.5A	24.50	24.30	24.11
580-ULT-12/2.5D48PMC	ULT-12/2.5-D48PM-C	B	48(36-75)	12	2.5A	25.25	25.05	24.86

DATEL ULS SERIES, 30-66W ISOLATED SIXTEENTH BRICK

- * Surface Mount Package
- Industry standard DOSA Sixteenth-brick format and pinout
- 2250V basic input/output isolation

580-ULS-3.3/20-D48NC	ULS-3.3/20-D48N-C	C	48 (36-75)	3.3	20A	33.25	32.98	32.71
580-ULS12/2.5-D48N-C	ULS-12/2.5-D48N-C	C	48 (36-75)	12	2.5A	27.25	27.03	26.80
* 580-ULS12/2.5D48NM-C	ULS-12/2.5-D48NM-C	C	48 (36-75)	12	2.5A	29.53	28.84	28.56
580-ULS-15/2-D48N-C	ULS-15/2-D48N-C	C	48 (36-75)	15	2A	27.25	27.03	26.80
* 580-ULS-15/2-D48NM-C	ULS-15/2-D48NM-C	C	48 (36-75)	15	2A	29.53	28.84	28.56

DATEL UWS SERIES, 49-54W ISOLATED WIDE INPUT SIXTEENTH BRICK

- * Surface Mount Package
- High efficiency to 91%

580-UWS-3.3/15-Q48NC	UWS-3.3/15-Q48N-C	D	48 (18-75)	3.3	15A	34.34	33.70	33.26
* 580-UWS-3.3/15Q48NMC	UWS-3.3/15-Q48NM-C	D	48 (18-75)	3.3	15A	34.82	34.16	33.73
580-UWS-5/10-Q48N-C	UWS-5/10-Q48N-C	D	48 (18-75)	5	10A	34.34	33.70	33.26
* 580-UWS-5/10-Q48NMC	UWS-5/10-Q48NM-C	D	48 (18-75)	5	10A	34.82	34.16	33.73
580-UWS-12/4.5-Q48NC	UWS-12/4.5-Q48N-C	D	48 (18-75)	12	4.5A	34.34	33.70	33.26
* 580-UWS-12/4.5Q48NMC	UWS-12/4.5-Q48NM-C	D	48 (18-75)	12	4.5A	34.82	34.16	33.73

DATEL UEE SERIES, 50-99W ISOLATED EIGHTH-BRICK

- Outstanding thermal performance and derating
- Fully protected against temperature and voltage limits
- On/Off control, trim and sense functions
- Fully isolated, 2250 Vdc (BASIC) insulation

580-UEE3.3/15D48N-C	UEE-3.3/15-D48N-C	E	48(36-75)	3.3	15A	31.57	31.37	30.97
580-UEE3.3/25D48N-C	UEE-3.3/25-D48N-C	E	48(36-75)	3.3	25A	35.87	35.64	35.19
580-UEE3.3/30D48N-C	UEE-3.3/30-D48N-C	E	48(36-75)	3.3	30A	39.47	39.22	38.72

DATEL UWE SERIES, 66-75W ISOLATED SINGLE OUTPUT EIGHTH BRICK

- * With baseplate
- Synchronous rectification yields very high efficiency and low power dissipation
- Operating temperature range from -40°C to +85°C with derating
- Up to 1500 Volt DC isolation (basic insulation)

* 580-UWE-5/15-Q12PB-C	UWE-5/15-Q12PB-C	F	12(9-36)	5	15A	71.50	70.92	70.32
580-UWE-12/6-Q12P-C	UWE-12/6-Q12P-C	F	12(9-36)	12	6A	64.00	63.48	62.95
* 580-UWE-12/6-Q12PB-C	UWE-12/6-Q12PB-C	F	12(9-36)	12	6A	71.50	70.92	70.32
* 580-UWE-15/5-Q12PB-C	UWE-15/5-Q12PB-C	F	12(9-36)	15	5A	73.50	72.89	72.29
* 580-UWE-24/3-Q12PB-C	UWE-24/3-Q12PB-C	F	12(9-36)	24	3A	73.50	72.89	72.29
580-UWE12/6-Q48N-C	UWE-12/6-Q48N-C	F	48(18-75)	12	6A	62.00	61.49	60.99
* 580-UWE-12/6-Q48NB-C	UWE-12/6-Q48NB-C	F	48(18-75)	12	6A	69.50	68.93	68.36
580-UWE-15/5-Q48N-C	UWE-15/5-Q48N-C	F	48(18-75)	5	5A	66.29	65.94	65.39
* 580-UWE-15/5-Q48NB-C	UWE-15/5-Q48NB-C	F	48(18-75)	5	5A	69.50	68.93	68.36

DATEL UQQ SERIES, 82.5-105W ISOLATED QUARTER BRICK SINGLE OUTPUT

- * With Baseplate
- N for negative polarity or P for positive polarity
- Interleaved synchronous-rectifier topology
- On/Off control, trim and sense function

* 580-UQQ-128-Q12PB-C	UQQ-12/8-Q12PB-C	G	12 (9-36)	12	8A	109.21	108.32	107.43
* 580-UQQ-24/4-Q12PB-C	UQQ-24/4-Q12PB-C	G	12 (10-36)	24	4A	109.21	108.32	107.43

DATEL UVQ SERIES, 96-120W ISOLATED SINGLE OUTPUT QUARTER BRICK

- * With baseplate
- Fully isolated, 2250Vdc (BASIC) insulation
- High efficiency to 92%

Positive Polarity								
* 580-UVQ12-8-D24PB-C	UVQ-12/8-D24PB-C	H	24(18-36)	12	8A	90.10	87.45	81.54
580-UVQ-24/4.5D24P-C	UVQ-24/4.5-D24P-C	H	24(18-36)	24	4.5A	109.15	100.05	98.41

DATEL HPQ SERIES, 183-300W ISOLATED QUARTER BRICK

- * "X" optional version omits trim and sense pins
- † With Baseplate
- 2250 Volt basic isolation

580-HPQ8.3/22-D48N-C	HPQ-8.3/22-D48N-C	I	48 (36-75)	8.3	22A	81.49	76.21	72.85
580-HPQ8.3/22-D48P-C	HPQ-8.3/22-D48P-C	I	48 (36-75)	8.3	22A	82.05	76.73	73.36
† 580-HPQ12/25D48NB-C	HPQ-12/25-D48NB-C	J	48 (36-75)	12	25A	77.50	76.88	76.26
580-HPQ12/25D48N-C	HPQ-12/25-D48N-C	J	48 (36-75)	12	25A	75.50	74.88	74.26
* 580-HPQ12/25D48NX-C	HPQ-12/25-D48NX-C	J	48 (36-75)	12	25A	74.50	73.88	73.26
† 580-HPQ12/25D48PB-C	HPQ-12/25-D48PB-C	J	48 (36-75)	12	25A	78.00	77.38	76.76
* † 580-HPQ12/25D48PBX-C	HPQ-12/25-D48PBX-C	J	48 (36-75)	12	25A	88.37	86.64	85.22

DATEL UWE SERIES, 100-120W WIDE INPUT ISOLATED EIGHTH-BRICK

- Synchronous rectification yields very high efficiency and low power dissipation
- Outstanding thermal performance and derating
- On/Off control, trim and remote sense functions
- Pre-bias operation for startup protection

580-UWE-12/10-Q48N-C	UWE-12/10-Q48N-C	K	48 (18-75)	12	10A	44.50	44.14	43.77
580-UWE-12/10-Q48NB-C	UWE-12/10-Q48NB-C	K	48 (18-75)	12	10A	46.00	45.64	45.27
580-UWE-3.3/30-Q48N-C	UWE-3.3/30-Q48N-C	K	48 (18-75)	3.3	30A	44.50	44.14	43.77
580-UWE-3.3/30Q48NB-C	UWE-3.3/30-Q48NB-C	K	48 (18-75)	3.3	30A	46.00	45.64	45.27
580-UWE-5/20-Q48N-C	UWE-5/20-Q48N-C	K	48 (18-75)	5	20A	44.50	44.14	43.77
580-UWE-5/20-Q48NB-C	UWE-5/20-Q48NB-C	K	48 (18-75)	5	20A	46.00	45.64	45.27

DATEL UWQ SERIES, 204W WIDE INPUT ISOLATED DOSA QUARTER BRICK

- Efficiency: 92% Typical

580-UWQ-12/17-Q48N-C	UWQ-12/17-Q48N-C	L	48(18-75)	12	17A	69.65	69.07	68.45
580-UWQ-12/17-Q48P-C	UWQ-12/17-Q48P-C	L	48(18-75)	12	17A	70.44	69.85	69.23
580-UWQ-12/17-Q48NB-C	UWQ-12/17-Q48NB-C	L	48(18-75)	12	17A	71.25	70.66	70.02
580-UWQ-12/17-Q48PBC	UWQ-12/17-Q48PBC	L	48(18-75)	12	17A	73.67	73.05	72.40

DATEL RBC SERIES, 210W ISOLATED SINGLE OUTPUT QUARTER BRICK

- Ultra-high efficiency up to 93%
- Fully isolated, 2250Vdc (BASIC)

580-RBC-12/17-D48N-C	RBC-12/17-D48N-C	M	48(36-75)	12	17A	60.81	60.30	59.76
580-RBC-12/17-D48P-C	RBC-12/17-D48P-C	M	48(36-75)	12	17A	61.44	60.82	60.28

DIMENSIONS: in.

Height: 0.35
Height: 0.35
Height: 0.40
Height: 0.38
Height: 0.50
Height: 0.42
Height: 0.50
Height: 0.44
Height: 0.39
Height: 0.46
Height: 0.42

For full details go to www.murata-ps.com/rohs

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