

# MURATA POWER SOLUTIONS DC-DC Converters



This product is RoHS compliant.

## Q-CLASS 12-55A QUARTER-BRICK ISOLATED SINGLE OUTPUT

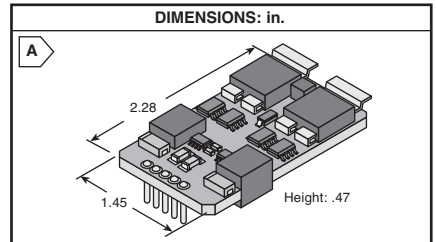
- Negative logic
- Input range: 36-75V
- Isolated voltage: 1.5kVdc

- Thermal and overload protection
- Positive enable logic models and Surface Mount versions available- contact a Mouser Service Representative

RoHS Compliant

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MPS Part No.	Fig.	Output Power	Input Voltage	Output Voltage	Output Current	Price Each			
							1	5	10	25
580-QHS12-120-0CC	QHS12-120-NHCRC	A	144W	48V	12V	12A	81.50	80.78	80.12	78.98
580-QHS50-015-0CC	QHS50-015-NHCRC	A	75W	48V	1.5V	50A	92.26	89.21	85.01	79.08
580-QHS55-012-0CC	QHS55-012-NHCRC	A	66W	48V	1.2V	55A	92.26	89.21	85.01	79.08



## IBA-INTERMEDIATE BUS CONVERTERS

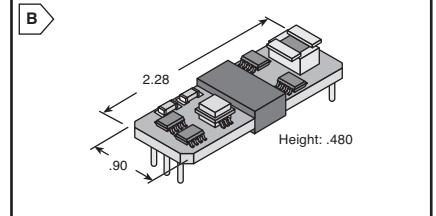
- Negative logic
- 4:1, 5:1, 6:1 fixed conversion ratios
- Over temperature and over current protection
- Isolated voltage: 2.25kVdc
- Input range: 36-55V
- 1/8 Brick Footprint



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MOUSER STOCK NO.	MPS Part No.	Fig.	Output Power	Input Voltage	Output Voltage	Output Current	Price Each			
							1	5	10	25
580-EUS15-120NHCRC	EUS15-120-NHCRC	B	180W	48V	12V	15A	58.90	57.45	54.82	52.48
580-EUS20-120NHCRC	EUS20-120-NHCRC	B	240W	48V	12V	20A	58.90	57.45	54.82	52.48



## VRM 32-BIT INTEL PROCESSOR SUPPORT

- High efficiency
- Input fuse protection
- Card edge connector
- Short circuit protection
- Remote sense and enable

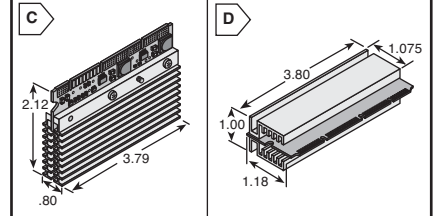
- Input range: 11.04-12.6V
- Active current sharing within 10%
- Wide range programmable output
- Meets VRM 10.2 or VRM 11.0 requirements



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MOUSER STOCK NO.	MPS Part No.	Fig.	Input Voltage	Output Voltage	Output Current	Price Each			
						1	5	10	25
580-VR102B150CS-2C	VR102B150CS-2C	C	12V	.8375 - 1.6V	150A	65.02	62.56	61.56	59.76
580-VR102B150CU-2C	VR102B150CU-3C	D	12V	.8375 - 1.6V	150A	59.73	55.33	53.52	51.05
580-VR110B080CU-1C	VR110B080CU-1C	E	12V	.83125 - 1.6V	80A	54.52	49.98	46.14	42.84
580-VR11CB080CU-1C	VR11CB080CU-1C	E	12V	.83125 - 1.6V	80A	54.52	49.98	46.14	42.84
580-VR11CB150CU-1C	VR11CB150CU-1C	D	12V	.83125 - 1.6V	150A	59.73	55.33	53.52	51.05



## VRK 64-BIT AMD PROCESSOR SUPPORT

- Meets AMD K8 requirements
- DAC Programmable output voltage
- Differential remote sense

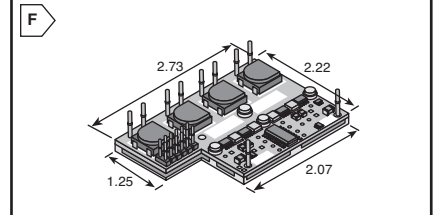
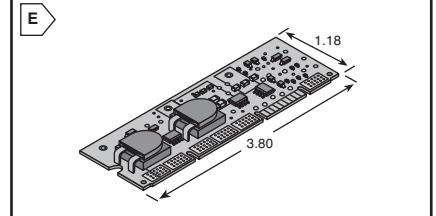
- Supervisory functions: Latch off overcurrent
- Short circuit protection
- Dynamic VID capability



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MOUSER STOCK NO.	MPS Part No.	Fig.	Input Voltage	Output Voltage	Output Current	Price Each			
						1	5	10	25
580-VRK81B100CS-1C	VRK81B100CS-1C	C	12V	0.8-1.55V	100A	50.84	48.44	46.64	43.14
580-VRK81B100TH-4C	VRK81B100TH-4C	F	12V	0.8-1.55V	100A	56.16	53.31	52.36	51.80
580-VRK81B080CU-1C	VRK81B080CU-1C	D	12V	0.8-1.55V	80A	50.84	48.44	46.64	43.14



Murata Power Solutions

## VCN60/70 SERIES POL NON-ISOLATED DC-DC CONVERTER

- Supports DDR1, 2, 3 SDRAM memory power requirements
- Programmable output voltage
- Soft start circuit
- Over voltage, current, temperature protection
- Differential remote sense

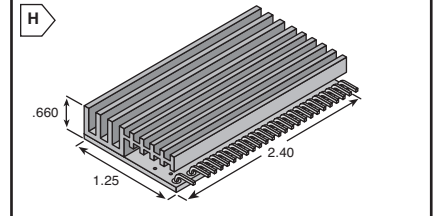
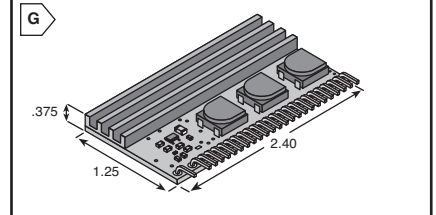
- Power good signal
- Output enable
- Pre-bias turn on
- Fused input
- 1U height, Thru-hole mounting



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MOUSER STOCK NO.	MPS Part No.	Fig.	Input Voltage	Output Voltage	Output Current	Price Each			
						1	5	10	25
580-VCN60BADJTU-1C	VCN60BADJTU-1C	G	12V	0.6-3.5V	60A	46.65	44.30	42.21	38.09
580-VCN70BADJTU-1C	VCN70BADJTU-1C	H	12V	0.6-3.5V	70A	48.99	48.64	46.11	43.34



DC-DC Converters

## BOOST CONVERTER SIP'S NON-ISOLATED POINT-OF-LOAD

- Not fuse protected
- Vertical top side pins
- MTBF 8.11 million hours
- Regulation ± 0.4% Line and Load

- Industry standard pin configuration
- Output Power: 25W
- Efficiency: 80%



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MOUSER STOCK NO.	MPS Part No.	Fig.	Input Voltage	Output Voltage	Output Current	Price Each			
						1	5	10	25
580-SBST0320500-7BC	SBST0320500-7BC	I	3.3V	5V	5A	30.46	29.54	25.74	24.64

