



The Powerful Advantage Since 1945

La MARCHE®

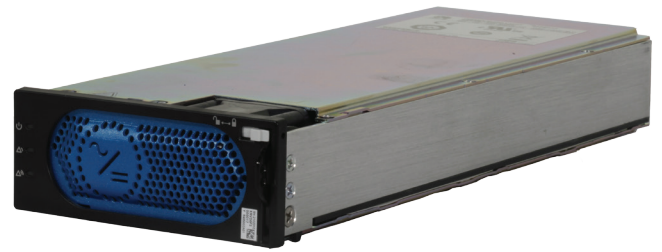
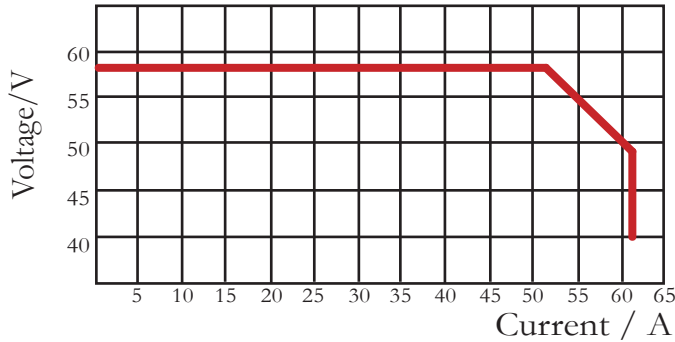
ISO 9001:2008 CERTIFIED

DC Rectifier

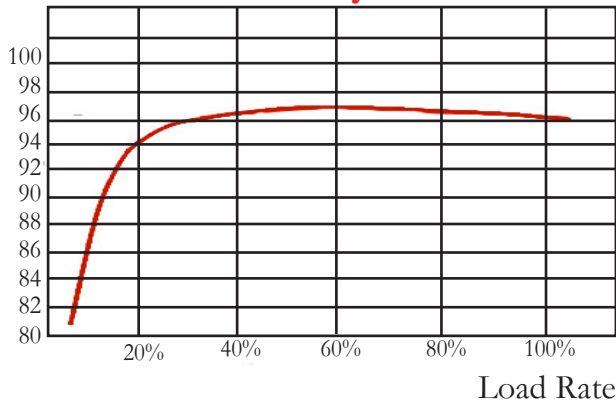
DCR50

The DCR50 rectifier converts AC power to DC power and delivers high performance features, such as high efficiency (>96%), high power density, walk-in start, complete protection and low noise. The output voltage of the rectifiers can be adjusted through the DC System controller. The rectifier is hot swappable, providing easy installation and maintenance.

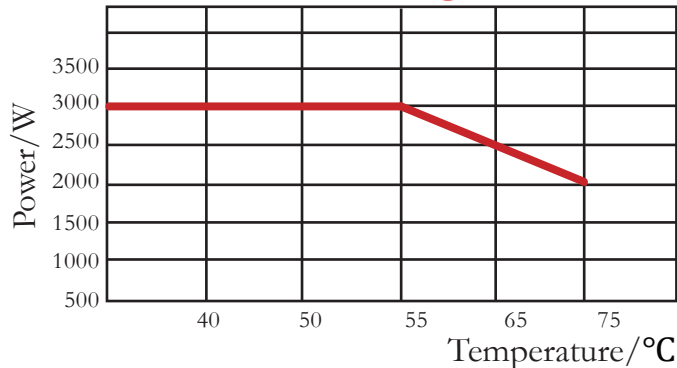
Output Feature



Efficiency Curve



Power Derating Curve



Standard Features

- High Efficiency Exceeds 96%
- Universal AC Input
- Operating Temperature Range: -40 to 65°C
- Total Harmonic Distortion (THD): <5%
- Hot Swappable
- Communication Over CAN
- Meets RoHS Requirements
- UL Recognized

Specifications subject to change without notice

La Marche Mfg. (A U.S. Company)

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Specifications

AC INPUT	Input voltage	85-300 VAC
	Frequency	45-66 Hz
	Maximum input current	≤17A
	Power factor	≥0.99
	THD	≤5%
DC OUTPUT	Output voltage	42-58 VDC, Nominal: 54 VDC
	Output power	56A @ 53.3V (176-300 VAC) Linearly derated to 23A @ 53.3V (85-175 VAC)
	Efficiency	>96%
ENVIRONMENTAL	Operating temperature	-40 to 65°C (-40 to 149°F), Derated Output Above 55°C (131°F)
	Storage temperature	-40 to 75°C (-40 to 167°F)
	Cooling	Forced Air Cooling
	Relative humidity	5% - 95% (Non-Condensing)
	Altitude	Up to 6,562ft (Derate Operating Temperature by 1°C/656ft for 6,562ft-13,123ft)
PROTECTION	Input overvoltage protection	300 VAC
	Input undervoltage protection	80 VAC
	Output overvoltage protection	58.5-60.5 VDC
	Output short circuit protection	✓
	Over-temperature protection	✓
MECHANICAL	Overall Dimension (W x D x H)	4.1" x 11.1" x 1.6" 105 x 281 x 40.8mm
	Weight	≤4.4lb (≤2kg)
RELIABILITY	MTBF	>500,000 hours
AUDIBLE NOISE		≤55dB (40°C, Full Load)
SAFETY/EMC/ LIGHTING PROTECTION	Safety certification	UL UL60950-1 IEC60950-1 EN60950-1 CAN/CSA C22.2 No. 60950-1
	EMC	EN55022 Class B EN55024 EN61000-3-2 EN61000-3-3 ETSI EN300 386 ETSI EN301489 ITU-T K.20
	Lighting protection	YD 5098-2005 5KA