PowerOn AUSTRALIA

RXP Modular Converter Solutions

MCS3 and MCS6 Series

12V, 24V, 48V and 110V secure DC-DC power converter systems up to 1.5kW and 3kW respectively.

The Eaton® RXP Module Converter Solutions are ideal for low to medium power telecommunications and industrial applications, offering compact, efficient, flexible and reliable secure DC power supply.

These 19" rack mount systems are available with up to 3 or 6 of the Eaton RXP Modular Converter Unit modules as 12V, 24V, 48V or 110V with an output up to 180A.

With efficiency up to 90% these modular converter solutions can reduce operating costs.

The systems include an integral DC distribution panel with a range of MCB and Low Voltage Disconnect (LVD) options available.

The SC300 series of system controller offers highly advanced control and monitoring features including Smart Alarm – a configurable logic for automated site energy control.

The SC300 also offers a complete array of communications options with Ethernet, cellular (including text messaging) standard modem and TCP/IP communications options.

Typical applications include providing secure power for communications equipment, data networks, and industrial signalling and control.

The RXP Modular Converter Solutions are pre-configured and most system settings are adjustable in software and stored in transferable, configuration files for repeatable and quick one-step system set-up.

Features

- 19" sub-rack
- Modular 3U and 6U options
- Up to 6 converter modules
- N+1 redundancy options
- Pre-configured software
- High power density (110V/48V, 3kW, 6U, 19")
- Fast on-line expansion of modules (hot-swap)
- Graphical User Interface – LCD Panel
- Load LVD fitted (200A MCS3, 400A MCS6)
- Non-priority LLVD optional for MCS6 DC distribution
- Remote monitoring & control via Ethernet
- Input for 12V, 24V, 48V, and 110V
- Output for 12V, 24V and 48V
- Color Coded Modules
- Integrated DC distribution panel
- Options for external Digital and Analogue I/O

Input		
Nominal Voltage (DC)	12V, 24V, 48V, 110V (Depends on MCU modules fitted)	
Voltage Range (DC)	12V, (10-15V)	
	24V, (20-30V)	
	48V, (40-60V)	
	110V, (80-130V)	
Efficiency	85-90%	
Output		
Nominal Voltage (DC)	12V, 24V, 48V (Depends on MCU modules fitted)	
Voltage Range (DC)	12V, (12-15V)	
	24V, (23-32V)	
	48V, (44-56V)	
Power (DC)	MCS3	12V:900W
		24V:1500W
		48V:1500W
	MCS6	12V:1800W
		24V:3000W
		48V:3000W
Load Regulation	< +/-0.5% (20-100% load)	
Environmental		
Operating Temperature	25 oC to +55 oC at rated power	
Isolation	5kV DC input to output	
Mechanical		
Dimensions	MCS3-RXP: 3U, 19" mounting, 306mm*	
H,W,D	MCS6-RXP: 6U, 19" mounting, 306mm*	
	*Additional clear space is required for exhaust air.	
System		
System Controller	SC300	
DC Distribution Module	MCS3-RXP: 12-way load circuit breakers*	
	MCS6-RXP: 20-way load circuit breakers*	
	*Depends on pitch and rating of circuit breakers fitted and options fitted.	
Communications Features*	USB direct	
	100Base T Ethernet, TCP/IP, SNMP, Modbus-TCP, Modbus-RTU and on board web server.	
Low Volts Disconnect (LVD)	MCS3-RXP / MCS6-RXP: 200A load LVD (24Vdc coil)	
	MCS3-12V-RXP / MCS6-12V-RXP: 200A load LVD (12Vdc coil)	
Blank Panels	For unused converter positions	
Top/Rear Covers	Optional	
Software		
DC Tools	Configuration software.	
	Free download from: www.Eaton.com	

In the interests of continual product improvement all specifications are subject to change without notice. Performance ratings are valid with all other variables at Nominal. Specifications guaranteed over rated operating range. Images are indicative views only and not guaranteed representations and will vary according to options fitted.