

OCtoPower M-CRPS 48V

OPEN, FLEXIBLE POWER FOR OCP ORV3 INFRASTRUCTURE



No contractual



No contractual

Key Features



OCP ORV3 Ready



Up to 6 × 3.2 kW Power Modules



Multi-Vendor Sourcing



80 PLUS Titanium Efficiency



M-CRPS standard PSUs

PRODUCT PAGE

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ABOUT THIS PRODUCT

CRPS & M-CRPS Compatible Power Shelf

By adopting the M-CRPS and CRPS standard, OCtoPower gives access to a broader range of PSU suppliers. Customers can select qualified manufacturers according to availability, pricing or project requirements. This reduces dependency on a single vendor, improves supply-chain resilience and can help shorten lead times. It also creates better price competition for large-scale deployments.

Open Power Architecture for OCP Infrastructure

The OCtoPower 48V M-CRPS brings a more flexible approach to OCP ORV3 power infrastructure. Designed for 21-inch Open Rack V3 environments, it uses six standard M-CRPS power modules instead of proprietary PSU formats. This gives customers greater sourcing freedom, easier maintenance and improved long-term availability. The result is an open, scalable power platform combining OCP architecture with industry-standard power supplies.

Smart Power Management

An embedded management controller provides centralized supervision of the power shelf and its six M-CRPS modules. Power status, temperature and PSU operating data can be monitored individually through PMBus, while secure Web UI and REST API access simplify remote administration. This provides operators with better visibility of the power infrastructure, easier diagnostics and straightforward integration with data-center management systems.

Flexible Power & Redundancy Management

The power architecture can be configured in N, N+1 or N+N redundancy, depending on infrastructure availability requirements. Redundancy can be implemented within a single power shelf or across multiple power shelves installed in the same rack. Combined with per-module monitoring and remote management capabilities, this flexible architecture allows operators to balance power density, resilience and service continuity according to each deployment.

Simplified Operations and Lifecycle Management

An embedded management controller provides per-PSU power and temperature monitoring through PMBus, with remote access through secure web and REST interfaces. The modular M-CRPS design also simplifies replacement, spare-part management and long-term maintenance. Standardized PSU modules help operators maintain greater flexibility throughout the infrastructure lifecycle.

Multi-Vendor M-CRPS Operation

The Power Shelf supports simultaneous operation of compatible M-CRPS modules from different manufacturers, reducing dependency on a single supplier and improving supply-chain resilience.

OCtoPower 48V M-CRPS

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SPECIFICATIONS

system	Model	PWS-OC3-100-R110 (for 185 mm modules) PWS-OC3-100-R111 (for 265 mm modules)
	Form factor	21-inch 1 OpenU
	Dimension	720 x 537 x 45.5mm (latch to hard stop) 28.35"x 21.14" x 1.79" (latch to hard stop)
	Cooling technology	Air Cooling
PSU Modules	Standard	6x M-CRPS Reverse Airflow In (AFI)
	Type	AC/DC
	Dimensions	PWS-OC3-100-R110: 185 x 73.5 x 40 mm (D x W x H) PWS-OC3-100-R111: 265 x 73.5 x 40 mm (D x W x H)
	Max Power	Up to 3200w (2800w @200-229Vac)
	Efficiency	80 PLUS Titanium (96%)
Input	Voltage	AC input: 200 ~ 240VAC (Rated)
	Frequency	47 - 63Hz
	Input Connector	6x IEC 320 C20 (16A / 250Vac)
	Max Current	6x 16A (96A / 250Vac)
Output	Voltage	54.5V
	Max Load	350A
	Ripple & Noise	540mVp-p
PROTECTION & RELIABILITY	Per module :	Over Current Protection (OCP) Over Power Protection (OPP) Over Voltage Protection (OVP) Under Voltage Protection (UVP) PFC Over Voltage Protection (Bulk OVP) Over Temperature Protection (OTP) Holdup Time: 11msec @ 100% Load MTBF: >400,000 hours @ 100% Load, 30°C Ambient
Management Solution	Software	Embedded Linux (Buildroot) on integrated BeagleBone Black controller; per-module power & temperature monitoring of the 6 CRPS modules over PMBus; secure Web UI (HTTPS) + REST API; over-the-air firmware update; scriptable (shell, Python, Node.js, Node-RED)
	Out of band remote management	Dedicated management controller, independent from the power path, reachable on its own Ethernet port. SSH available for service access
Operating environment	Operating Temperature	Operation temperature: 15°C ~ 50°C (59°F ~ 122°F)
	Non-operating Temperature	Non operation temperature: -40°C ~ 60°C (40° ~ 140°F)
	Altitude	Operating: to 16,400 feet (5,000 meters) Non-operating: to 49,800 feet (15,200 meters)
	Operating Relative Humidity	Up to 85% RH, Non-condensing
	Non-operating Relative Humidity:	Up to 95% RH, Non-condensing
Warranty	2CRSi hardware warranty includes a one year, parts and labour with return to 2CRSi selling entity. Customers may purchase an extended warranty of up to 3 years on parts and labour with different support levels. Please contact 2CRSi at support@2crsi.com or reach your sales point of contact for complete warranty details including limitations and transferability. 2crsi.com/global-location.	