

Serenity 48V/2000W

High Efficiency Rectifier



Exicom's new rectifier Quantum-4 48V/3000W combines advanced design for reliability and an industrial leading efficiency up to 96.6%. The single phase, hot-pluggable fan cooled rectifier provides outstanding power density while its intelligent & advanced protection features allow user to deploy it in any kind of environment - urban /rural / poor grid etc. It also comes with optional integrated distribution cabinet giving customer flexibility to meet higher power demands in tight spaces as per telecom market requirements.

Key Features:



High efficiency upto 96.6% & high power density with 12KW in 1U shelf



Wide operating input voltage and temperature range



Small and Large: Can support installations from 3kW to 180kW



Multi-application use



Global compliance



Hot Plug and user-friendly registration for easy maintenance

Applications:

- Telecom: Cellular base station sites, LTE/WiMax, Hub sites and central offices
- Smart Cities: Smart poles, surveillance etc.
- Power Utilities: Control and protection and communication equipment
- Railways: Signalling, communication equipment and control & protection
- Mobility Solutions: EV Chargers

Quantum-4 48V/3000W

Technical Specifications

AC Input

Voltage	90 - 300Vac
Frequency	44 - 66Hz
Maximum Current	19A
THD	<5% (50% to 100% Load)
Power Factor	Typical 0.99
Input Protection	Off <99-300Vac < Off Line & Neutral input fuses MOV transient protection
Galvanic Isolation	
Input to Output	3000Vac
Input to Ground	1500Vac
Output to Ground	500Vdc

DC Output

Voltage	54.0V; Adj: 42.0 - 58.0V
Output Power	2000W above 185Vac 900W at 90Vac
Maximum Current	42A@48V
Current Sharing	± 5% of max. current
Static Voltage regulation	± 0.5% for 10%-100% load
Dynamic Voltage regulation	± 5% for 90% - 10% load
Hold up time	>10ms
Ripple Noise	<200 mV p-p 30MHz bandwidth
Output Protection	Over voltage shutdown Short circuit proof Hot-plugin inrush current limiting Output fuse Over temperature shut-off
Efficiency	Peak 95.5 %

Quantum-4 48V/3000W

Technical Specifications

Other Specifications

MTBF	>5 Lac Hrs. (55°C)
Operating Temperature	- 40°C to +75°C, linear derating from 50° onwards
Storage Temperature	-40°C to + 85°C
Cooling	Forced Air
Humidity	5% to 95% non-condensing
Acoustic Noise	Less than 55dB(A)
Communication Interface	CAN bus
Control & Monitoring	M2000 controller
Dimensions (wxhxd)	105 x 40.8 x 269 (mm)
Weight	< 2 kg
LED Indications	
Green	On: No faults Flash - Rectifier comm. ok Slow flash - Sleep mode
Yellow (Warnings)	On - Input low / high, rectifier in power de-rate mode, current limit Flash - Rectifier, comm. fail
Red (Alarms)	On - Abnormal temp or input shutdown, low O/p voltage alarm, over-voltage shutdown on output Flash - Rectifier fan fail

Applicable Standards

Electrical Safety	EN 62368 / IEC 62368, UL 62368, REACH
EMC / EMI	Conducted Emission CISPR 32 (Class B) Radiated Emission CISPR 32 (Class B)
Environmental	EN 300019-1-1/-2/-3. ROHS Complied

Part No. Description

HE513470	SMR Quantum-4 48V/3000W
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