

Quantum 48V / 1100W

High Efficiency Rectifier



Exicom's Quantum 48V/11 00W rectifier is designed specifically for small power applications such as small cell deployment, enterprise applications of PoE and VoIP, and also telecommunications roadside cabinet installations for IoT, Wi-Fi etc. Small depth allows pole mount, wall mount or in-building applications while features such as hot plug in, automatic registration allow fast network deployment

Key Features:



High efficiency of 94%



Wide operating input voltage and temperature range



Silent operation and very low audible noise



Multi - application use



Global compliance



Hot plugin and user friendly registration for easy maintenance

Applications:

- Telecom : Small cells, LTE/WiMax, broadband & other low power installations
- Smart Cities : Smart poles, surveillance etc.
- Power Utilities : Control and protection and communication equipment
- Railways : Signalling, communication equipment and control & protection

Quantum 48V / 1100W

Technical Specifications

AC

Nominal Voltage	185 - 300VAC
Operating Voltage	90-300VAC
Frequency	44- 66Hz
Maximum Current	<7A
THD	<5% (50% to 100% Load)
Power Factor	Typical 0.99
Input Protection	Off <99-300Vac < Off Self-protection upto 450VAC Line & Neutral input fuses MOV transient protection
Galvanic Isolation	
Input to Output	3000Vac
Input to Ground	1500Vac
Output to Ground	650 Vdc

DC

Nominal Voltage	54V; Adj: 40V - 59V
Output Power	1100W above 185Vac 440W at 85Vac
Maximum Current	23A @48V
Current Sharing	± 5% of max. current
Static Voltage regulation	± 0.5% for 10%-100% load
Dynamic Voltage Regulation	± 5% for 90% - 10% load 90% - 10 %, load change over Regulation time <20ms
Hold up time	>10ms
Ripple Noise	<200 mVp-p 20MHz bandwidth
Output Protection	Over voltage shutdown Short circuit proof Hot-plugin inrush current limiting
Efficiency	Peak 94%

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Technical Specifications

Other Specifications

MTBF	>300,000 Hrs. (25°C ambient)
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	M1000 / M2000 Controller
Dimensions (wxhxd)	85x42x190 (mm)
Weight	< 1kg
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 62368-1 / IEC 62368-1, UL 62368-1
EMC / EMI	EN55032, EN55035
Environment	EN 300019-1-1 /-2/-3, RoHS - 2015/863 EU

Part No. Description

HE513102	Quantum 48V/1100W Rectifier
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