

Quantum 48V/1200W

High Efficiency Rectifier



Exicom's Quantum 48V/1200W rectifier is designed specifically for small power applications such as small cell deployment, enterprise applications such as 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
- Hot plugin and user friendly registration for easy maintenance
- Small depth for pole mount, wall mount and in building applications
- Multi-application use
- TUV and CE Compliance

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/1200W - Technical Specifications



AC INPUT	
Voltage	85–300V ac
Frequency	45-66Hz
Maximum Current	9.0A
THD	<5%
Power Factor	Typical 0.99
Input Protection	Off < 90 – 320V ac < Off Line & Neutral input fuses
Galvanic Isolation	
Input to Output	3000 V ac
Input to Ground	1500 V ac
Output to Ground	500 V ac

DC OUTPUT	
Voltage	54.0V; Adj: 42.0 - 58.0V
Output Power	1,200W above 154-300Vac 500W at 85-154V ac
Maximum Current	22A
Current Sharing	+/-5% of max. current
Static Voltage regulation	+/-0.5% from 10% - 100% load
Dynamic Voltage Regulation	+/-5% for 10% - 90% load
Dynamic Voltage Regulation	+/-5% for 90% - 10% load
Hold up time, Max Op. Power	> 10ms; output voltage > 42Vdc
Ripple Noise	<200 mV p-p 30MHz bandwidth
Output Protection	Over Voltage Shutdown Short Circuit Proof Inrush current limiting fuse Over Temperature Shut-Off
Efficiency	Peak 94.0%

OTHER SPECIFICATIONS	
Operating Temperature	-40 to +55°C 100% power o/p 55 to +65°C, 50% derated power
Storage Temperature	-40°C to +7°C
Cooling	5% to 95% non-condensing
Humidity	Forced Air
Acoustic Noise	Less than 50dB(A)
MTBF	>500,000 hrs. (25°C ambient)
Communication Interface	RS 485 Bus
Control & Monitoring	M1000 controller
Dimensions	86 x 42 x 191 (mm)
Weight	1 kg
LED Indications	
Green	Normal
Yellow	Protection Warning
Red	Failure
Indications	Failure Mains shutdown High temperature shutdown Rectifier failure Output overvoltage shutdown Fan fail

APPLICABLE STANDARDS	
Electrical Safety	EN 60950
EMC/EMI	EN 55022, Class B
Environmental	EN 300 019-2-1/-2/-3

PART NO. DESCRIPTION	
HE-5130101	Quantum 48V/1200W SMR

Specifications are subject to change without notice

Web: www.exicom-ps.com

India Sales

- ✉ Sales.India@exicom.in
- 📍 Plot 2A, Anath Road, Sector 18, Guragon 122015, India

APAC Sales

- ✉ Sales.APAC@exicom.in
- 📍 Exicom Tele-Systems (Singapore) Pte Ltd | 7500A, Beach Road, #12-318-9, The Plaza, Singapore 199591

Africa Sales

- ✉ Sales.Africa@exicom.in
- 📍 77 / 79, Eric Moore Road, Surulere, Lagos, Nigeria