

# **Quantum 48V/3000W** High Efficiency Rectifier



Telecom operators and infrastructure companies look for reliable, high quality, high efficiency and cost effective power solutions. With over 125,000 modules in operation globally in some of the harshest environments; Quantum 48V/3000W is a perfect choice for achieving energy saving and reliability



## **Quantum 48V/3000W - Technical Specifications**



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AC INPUT		
Voltage	85–300V ac	
Frequency	45-66Hz	
Maximum Current	18.0A	
THD	<5%	
Power Factor	Typical 0.99	
Input Protection	Off < 85 – 310V ac < Off Self Protection upto 420V ac Line & Neutral input fuses	
Galvanic Isolation Input to Output Input to Ground Output to Ground	3000 V ac 1500 V ac 500 V ac	

### **DC OUTPUT**

Voltage	54.0V; Adj: 42.0 - 58.0V
Output Power	3,000W above 185V ac 1400W at 90V ac
Maximum Current	62.5A
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	<300 mV p-p 30MHz bandwidth
Output Protection	Over Voltage Shutdown Overload Foldback Short Circuit Proof Output Fuse Protection Over Temperature Shut-Off
Efficiency	Peak 95.5%

OTHER SPECIFICATIONS		
Operating Temperature	-10°C to +75°C, Linear derating from 45°C onwards	
Storage Temperature	-40°C to +85°C	
Cooling	5% to 95% non-condensing	
Humidity	Forced Air	
Acoustic Noise	Less than 55dB(A)	
MTBF	>300,000 hrs. (25°C ambient)	
Communication Interface	CAN Bus	
Control & Monitoring	M1000 controller	
Dimensions Weight	106 x 50 x 360 (mm) 2.9 kg	
LED Indications Green	On: No Faults Flash - Rectifier comm. Ok Slow flash - Sleep mode	
Yellow (Alarms)	On - Input low / high, Rectifier in power de-rate mode Current limitFlash - Rectifier Comm. fail	
Red (Alarms)	On - Abnormal temp or input shutdown, Low O/p voltage alarm, Overvoltage shutdown on output Flash - Rectifier fan fail	

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

HE-512862

Quantum 48V, 3kW SMR

Specifications are subject to change without notice

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1