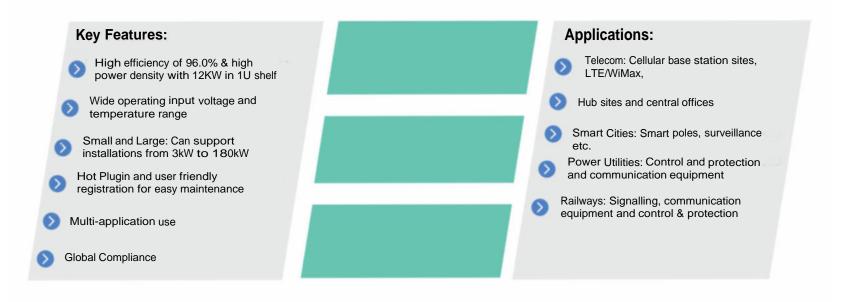


Quantum-3 48V/3000W

High Efficiency Rectifier



Exicom's new rectifier Quantum-3 48V/3000W combines advance design for reliability and an industrial leading efficiency of 96%. The single phase, hot-pluggable fan cooled rectifier providers 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.





Quantum-3 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 < 90-300Vac < Off Line & Neutral input fuses MOV transient protection
Galvanic Isolation Input to Output Input to Ground Output to Ground	3000Vac 1500Vac 500V DC

DC OUTPUT	
Voltage	54V ; Adj:42V – 58V
Output Power	3000W above 176Vac 1520W at 90Vac
Maximum Current	62.5A @ 48VDC
Current Sharing	± 5% of max. current
Static Voltage regulation	± 0.5% for 10%-100% load
Dynamic Voltage Regulation	± 5% for 10% - 90% & 90% -10% load change over, regulation time < 20ms
Hold up time Ripple	>10ms
Noise	<300mV p-p 20MHz Bandwidth Limit
Output Protection	Over voltage shutdown Short circuit proof Hot-plugin inrush current limiting Output fuse Over temperature shut-off
Efficiency	Peak 96.0%
Specifications are subject t	o change without notice

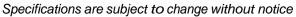
OTHER SPECIFICATIONS		
MTBF	>5 Lac Hrs (at 55°C)	
Operating Temperature	-40 to +75°C, linear derating from 50°C onwards	
Storage Temperature	-40°C to +85°C	
Cooling	Forced Air	
Humidity	5% to 95% non-condensing	
Acoustic Noise	Less than 55dB(A)	
Communication Interface	CAN bus	
Control & Monitoring	M2000 controller	
Dimensions (wxhxd) Weight	269x40.8x105 mm <2KG	
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 EMC/EMI Environmental EN 62368 / IEC62368, UL 62368, REACH Conducted Emission CISPR 32 (Class B) Radiated Emission CISPR 32 (Class B) EN 300019-1-1/-2/-3, ROHS complied

PART NO. DESCRIPTION

HE513470 SMR Quantum-3 48V/3000W

Web: www.exicom.in









Contact Q Plot No. 38, Institutional Area, Sector 32, Gurgaon, 122001, India E) Contact@exicom.in El Sales.India@exicom.in si Sales.APAC@exicom.in E Sales.Africa@exicom.in El Service@exicom.in