

R483000

Magnizon Rectifier Module

Product Description

R483000 is a digitalized rectifier module with outstanding reliability and it is capable of delivering 3000W of DC power at standard -48V DC (positive grounding compatible for Telecom solutions) with maximum current supply of 62.5Amp continuous.



Applications

- Fiber optic network and data room
- Wireless communications
- Broad band and network access
- Telecom roadside cabinets
- Satellite communications ground stations
- BTS 4G/5G Base station
- Manufacturing industry

Key Feature

- Nominal AC input: 85Vac ~ 300Vac
- Wide Working Temperature range: -40°C∼+85°C
- Active power factor correction: PF≥0.99
- Fan speed control design
- Output terminal with hot plug connector.
- High efficiency and highest power density (Typical: 93.7%, Maximum: 94.5%, 50W/in3 power density)
- Digitalized Control: Digitalized primary and secondary controls could realize excellent monitoring and regulation
- High Reliability Design: Fan front to back air flow with latest thermal solution and experienced electric synthetize ensure suitable working environment and high reliability
- Disconnects input Mains when hazardous
- Excellent EMC performance
- Lower interference and excellent susceptibility gives module more reliable.

Compliance standards

- ISO9001:2015, ISO14001:2015, RoHs, CE
- Electrical Safety: IEC60950/ UL60950, EN55022 Class B (emission)
- EMC: IEC61000-4-2/3/4/5/6, IEC61000-4-11
- Harmonics: IEC61000-3-2, IEC61000-3-3



R483000

Specifications

ITEM	R483000			
	ENVIRONMENTAL REQUIREMENTS			
Working temperature	-40℃~+85℃			
Storage temperature	-40℃~+85℃			
Humidity RH	≤95% RH			
	AC INPUT			
Voltage (V)	85Vac ~ 300Vac			
Current (A)	≤18A			
Frequency	45Hz ~66Hz			
Power factor	≥0.99			
	DC OUTPUT			
Efficiency	>97.8% Peak			
Voltage range	-42.0Vto-58.0VDC			
Rated Power	3000W			
Load regulation	≤±0.5%			
Voltage regulation factor	≤±0.1%			
	≤2 (Balance weight)			
Walley and American	≤200 (Peak-peak)			
Noise Voltage mV)	≤50 (3.4~150kH _Z)			
	≤20 (0.15~30MH _z)			
Error in load sharing	≤±5%			
Precision of voltage regulation	≤±0.6%			
/	Input overvoltage, under-voltage			
Protective function	output overvoltage, overload, short circuit, over-temperature and fan failure			
Cooling-down method	Speed air cooling			
Electrical Safety	IEC60950 UL60950			
EMC	EN55022 Class B (emission)			
	IEC61000-4-11			
	IEC61000-4-2 (electrostatic discharge)			
	IEC61000-4-3 (Radiated immunity)			
	IEC61000-4-4 (Fast transient)			
	IEC61000-4-5 (Surge immunity)			
	IEC61000-4-6 (Conducted immunity)			
Harmonics	IEC61000-3-3			
	IEC61000-3-2			
Environment	ETSI EN 300 019-2 (-1, -2, -3)			
	ETSI EN 300 132-2			
	TELCORDIA NEBS GR63 CORE ZONE H			
	RohS Compliant			
Certificate	CE			
Quality standards	ISO9001:2015, ISO14001:2015, RoHs			
Dimensions mm (W×D×H)	106×286×41			

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Weight (kgs)	4.00
Weight (kgs)	1.9kg

Indicator functional specification

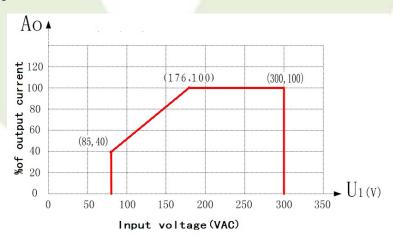
Indicator	Normal	Anomaly	Abnormal cause
Working indicator (green LED)	On	Off	The power supply is not working
		Flashing	The control module operates the rectifier module
Alarm indicator (yellow LED)	Off	On	AC input overvoltage, under voltage, short circuit, over temperature
		Flashing	Communication interrupt
Fault indicator (red LED)	Off	On	Rectifier module fault, PFC output overvoltage
		Flashing	Rectifier module fan fault

Characteristic Curve of Rectifier Module

Output Power-Ambient



Output Current -Input Voltage



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