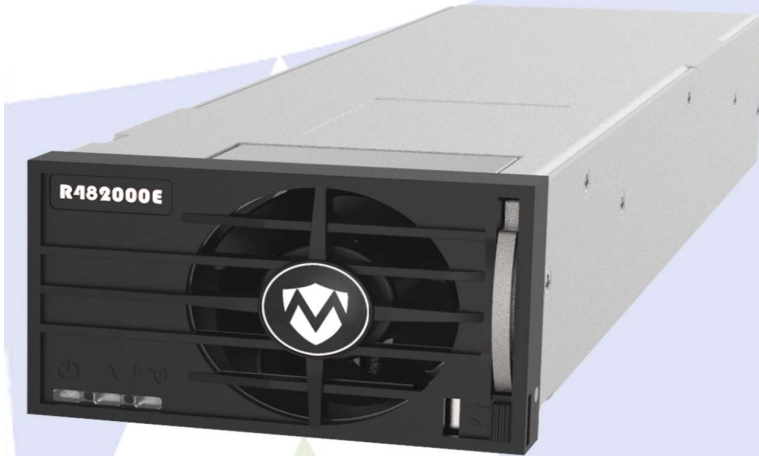


R482000

Magnizon Rectifier Module

Product Description

R482000 is a digitalized rectifier module with outstanding reliability and it is capable of delivering 2000W of DC power at standard 48V DC (positive grounding compatible for Telecom solutions) with maximum current supply of 42Amp 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

Specifications:

R482000

ITEM	R482000
ENVIRONMENTAL REQUIREMENTS	
Working temperature	-40°C~+85°C
Storage temperature	-40°C~ +85°C
Humidity RH	≤95% RH
AC INPUT	
Voltage (V)	85Vac ~ 300Vac
Current (A)	≤12.2A
Frequency	45Hz ~66Hz
Power factor	≥0.99
DC OUTPUT	
Efficiency	>97.8% Peak
Voltage range	-42.0Vto-58.0VDC
Rated Power	2000W
Load regulation	≤±0.5%
Voltage regulation factor	≤±0.1%
Noise Voltage (mV)	≤2 (Balance weight)
	≤200 (Peak-peak)
	≤50 (3.4~150kHz)
	≤20 (0.15~30MHz)
Error in load sharing	≤±5%
Precision of voltage regulation	≤±0.6%
Protective function	Input overvoltage, under-voltage; 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)
Harmonics	IEC61000-4-6 (Conducted immunity)
	IEC61000-3-3
Environment	IEC61000-3-2
	ETSI EN 300 019-2 (-1, -2, -3)
	ETSI EN 300 132-2
	TELCORDIA NEBS GR63 CORE ZONE H
Certificate	RoHS Compliant
Certificate	CE
Quality standards	ISO9001:2015, ISO14001:2015, RoHS
Dimensions mm (W×D×H)	106×286×41
Weight (kgs)	1.9kg

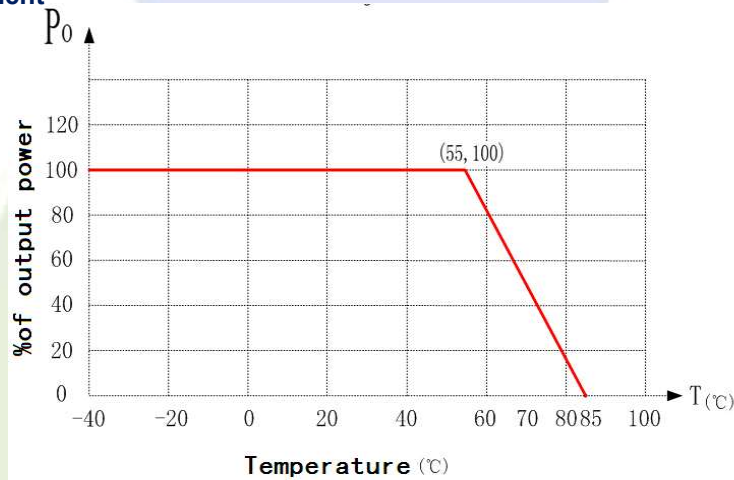
R482000

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

