

i-POWER

RECTIFIER MODULE DATASHEET

IPR-483K



IPR-483K

IPR-483K is a digital rectifier module with high efficiency and high power density. It can convert 85-300V AC input to the default output of 53.5V DC. It has the performance of high reliability, high conversion efficiency, low noise, soft start, hot swap.



PRODUCT OVERVIEW

AC Input

Input Voltage (Nominal): 110 Vac / 220 Vac
Input Voltage Range: 85 ~ 290 Vac
Max. Input Current: 18 A
Input Frequency: 45 ~ 65 Hz
Power Factor: ≥ 0.99 (220 Vac @20%-100% Load)

DC Output

Output Voltage: -42 ~ 58 Vdc, rated: -53.5 Vdc
Peak Efficiency: $> 96\%$
Maximum Capacity: 3000W
Maximum Output Current: 56.1 A
THD: $\leq 5\%$ @50%~100% load

Certifications Standard

EMC

- EN 55032
Class B
- EN 55035

Safety

- CE, UL, UL-CB UL
62368-1

Control and Monitoring

LED

- Green – Normal
- Yellow – Alarm
- Red – Fault

Communication Protocol

- CAN

Table Detail Specification

Item	Description
Dimension	291mm(L) * 106.4mm (W) * 41.5mm (H)
Weight	<2Kg
Cooling mode	Forced air cooling, built-in fan (with linear speed regulation function)
Over voltage	290Vac input voltage >300Vac: alarm light on, output on 300Vac input
Input Protection	Voltage: output off
Over-voltage recovery	Input voltage >290Vac, automatic recovery
Under-voltage	Input voltage >290Vac, automatic recovery

Contact Us

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221 WAI YIP ST, KWUN TONG, HONG KONG

Tabel Detail Specification

Item	Description
Under-voltage recovery	Input voltage >80-90Vac, automatic recovery
Output protection	Internal over-voltage: 58.5VDC-60.5VDC, can be set via monitor
External over-voltage	External over-voltage >63VDC, and last for more than 500ms. The module locks out when the external over-voltage protection occurs.
Current limiting	Refer to output characteristic curve
Short-circuit	Long time short-circuit tolerance, can be automatically recovered after the short-circuit disappears
Over temperature	With over temperature protection
Surge protection	Lightning protection 5KA 8/20μs
Operating temperature	-10°C~+75°C
Storage temperature	-10°C~+75°C
Operating environment	At -10°C ~ -55°C, it works normally; at -10°C ~ -65°C, the output power is linearly degraded to 80%; at -65°C ~ -75°C, the output power is linearly degraded to 40%. At -40°C, can power on normally after the input powered on. Output waveform is not required.
Relative humidity	<90% RH (no condensation)
Altitude	<4000m (from 3000m to 4000m, the operating temperature decreases by 1°C for each additional 200m)
MTBF	>500,000 hours (25°C)
Audible Noise	<56dB(A) (40°C)

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