R4830G1 Rectifier

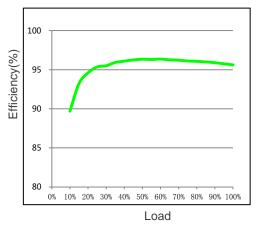




Rectifier

Features

- ✓ High efficiency: ≥96%
- ✓ Input voltage range: 85~300VAC
- ✓ Operating temperature range: -40°C~75°C
- ✓ Total harmonic distortion(THD): ≤5 %
- ✓ Hot-plug
- Digital control
- ✓ Intelligent electric meter
- Communication over CAN
- Adjustment of voltage and current
- ✓ Meet RoHS requirements
- Passing the TUV,CE,CB,UL certifications



Efficiency curve

Introduction

The R4830G1 is a digital rectifier that converts the 85~300VAC to 53.5 VDC and possesses the characters of high efficiency, high power density, walk-in start, hot-plug, complete protection, and low noise. The rectifier adopts the latest power monitoring technology, implements the function of monitoring the states of loads and the rectifier status in real time. The output voltage of the rectifier can be adjusted through the host

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Electrical Specifications	Specification
Input	
Input voltage	85~300VAC
Input voltage mode	220VAC single phase (or 110VAC dual live lines)
Frequency	45~65Hz Rated: 50Hz/60Hz
Maximum input current	≤13A
Power factor	≥0.99
THD	≤5%
Output	
Output voltage	42~58VDC Default value: 53.5VDC
Output power	1600W(176~300VAC)
Others	
Dimension	40.8(H)×95.5(W)×208(D)mm
Weight	≤1.5kg
Cooling	Forced air cooling
Environmental Specifications	
Operating temperature	-40°C~+75°C (non-derating under 55°C)
Storage temperature	-40°C~+70°C
Relative humidity	5%~95%(non-condensing)
Altitude range	≤ 4000m(If the altitude is within the range of 3000m to 4000m, the maximum operating temperature decreases by 1 °C as the



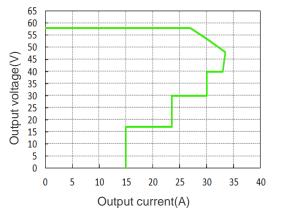
altitude increases by 200m.)

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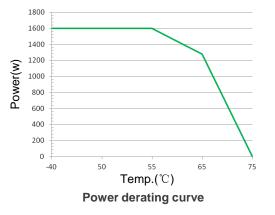




Rectifier



Output voltage V.S Output current



Protection	
Input overvoltage protection	Protection point: >300VAC
Input undervoltage protection	Protection point: <85VAC
Output overvoltage protection	58.5~60.5VDC(can be set by PMU)
Output short circuit protection	A long term short circuit is allowed
Over-temperature protection	Protection point: ≥75°C(167°F)
Reliability	
MTBF	>500,000hours
Audible Noise	
Specification	≤38dB(25℃) ≤55dB(55℃)
Safety/EMC/Lightening Protection	
Safety Certification	Passes TUV, CE, UL certifications Catch the CB certificate Complies with UL60950-1 IEC60950-1 EN60950-1 CAN/CSA C22.2 No. 60950 -1
EMC	EN55022 Class B EN55024 EN61000-3-2 EN61000-3-3 ETSI EN300 386 ETSI EN301489 ITU-T K.20
Lightning protection	YD 5098-2005 5KA

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