

# Rectifier Module

## R4830G1

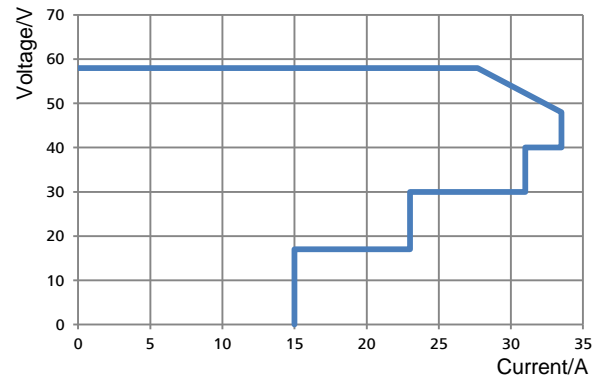


### Introduction

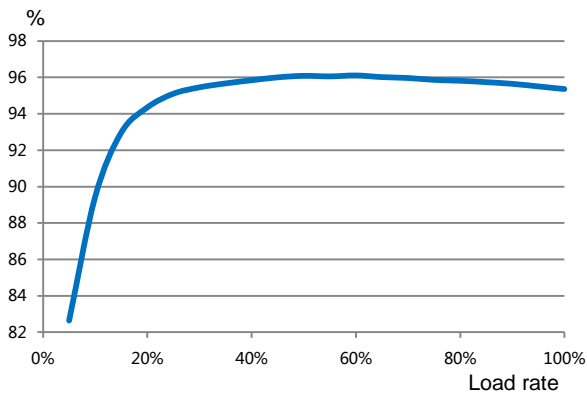
The R4830G1 is a digital rectifier that converts the 85~300VAC to 53.5 VDC and possesses the characters of high efficiency, high power density, walk-in start, hot-plug, complete protection, and low noise. The rectifier adopts the latest power monitoring technology, implements the function of monitoring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

### Feature

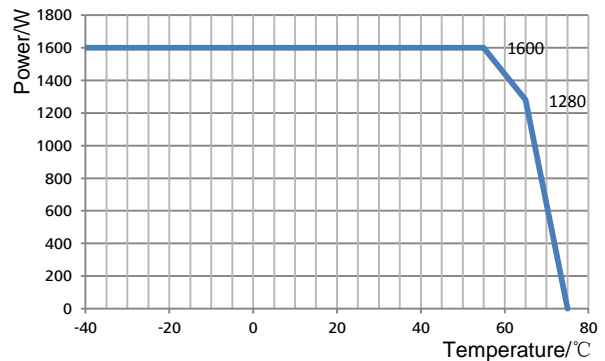
- High efficiency: >96%
- Input voltage range: 85~300VAC
- Operating temperature range: -40°C~75°C
- Total harmonic distortion(THD): ≤5%
- Hot-plug
- Digital control
- Intelligent electric meter
- Communication over CAN
- Adjustment of voltage and current
- Meet RoHS requirements
- Passing the TUV,CE,CB,UL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



Output feature



Efficiency curve



Power derating curve

# Specifications

Product		R4830G1
Basic specifications	Dimension	40.8(H)×95.5(W)×208(D)mm
	Weight	≤1.5kg
	Cooling	Forced air cooling
Input feature	Input voltage	85~300VAC
	Input mode	220VAC single phase(or 110VAC dual live lines)
	Frequency	45~66Hz, rated: 50Hz/60Hz
	Maximum input current	≤13A
	Power factor	≥0.99
	THD	≤5%
Output feature	Output voltage	42~58VDC, default value: 53.5VDC
	Output power	1600W(176~300VAC)
Environmental specifications	Operating temperature	-40℃~+75℃(non-derating under 55℃)
	Storage temperature	-40℃~+75℃
	Relative humidity	5%~95%(non-condensing)
	Altitude range	≤4000m(If the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m.)
Protection	Input overvoltage protection	Protection point: >300VAC
	Input undervoltage protection	Protection point: <80VAC
	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℃(167℉)
Reliability	MTBF	>500,000hours
Audible noises	Specification	≤45dB(25℃, full load)
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
	Lightening protection	YD 5098-2005 5KA

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