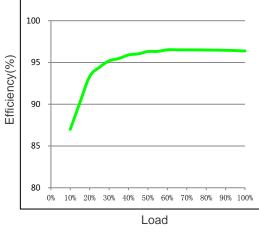




Rectifier

Features ---

- ✓ High efficiency: ≥96%
- ✓ Input voltage range: 85~300VAC
- ✓ Operating temperature range: -40~+75°C
- ✓ Total harmonic distortion(THD): \leq 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 R4815G1 is a digital rectifier that converts the 85~300VAC input to 53.5 VDC output and possesses the characters of high efficiency, walk-in start, hotplug, complete protection, and no audible 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.

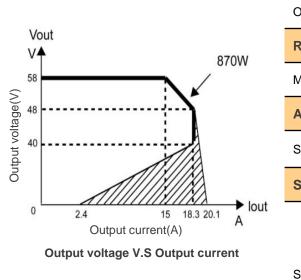
Electrical Specifications	Specification			
Input				
Input voltage	85~300VAC			
Input voltage mode	220VAC single phase (or 110VAC dual live lines)			
Frequency	45~65Hz Rated: 50Hz/60Hz			
Maximum input current	≤6A			
Power factor	≥0.99			
THD	≤5%			
Output				
Output voltage	42~58VDC Default value: 53.5VDC			
Output power	870W(176~300VAC)			
Others				
Dimension	40.8(H)mm×95.5(W)mm×208(D)mm			
Weight	≤1.5kg			
Cooling	Forced air cooling			
Environmental Specifications				
Operating temperature	-40℃~+75℃			
Storage temperature	-40℃~+70℃			
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.)			



R4815G1 Rectifier



Rectifier



	1000	E					
Power(w)	900	-					
	800	<u>E</u>					
	700	-			+		
	600	-			$ \rightarrow $		
	500	-				\frown	
	400	<u>-</u>				\rightarrow	
	300	-				\rightarrow	
	200	-					
	100						
	0	-	1	I	1		
	-	40	50	55	65	75	
Temp.(℃)							
Power Derating Curve							

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	≤30db(25°C) ≤48db(55°C)			
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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