

ZHS483KG

Rectifier Solar system to DC48V,3000W

PROSE

The appearance of the ZHS483KG rectifier module is shown below.



Parameter		Min.	Typical	Max.	Unit	Remark
Input						
Power on voltage		120	/	430	Vdc	
Input voltage		85	360	430	Vdc	
Input voltage MPPT		100	360	380	Vdc	
Static tracking efficiency, MPPT		99			%	
Input current		/	13	18	A	
The impulse current is instantaneous when the machine is turned on		≤Maximum steady-state input 150% of peak current				Rated input/rated load
Output						
MPPT	Output voltage	43	53.5	58	Vdc	Customer setting
	Output current		56	62.5	A	
	Output power			3000	W	Max.3200W @25±10℃
Voltage regulation accuracy				±0.6	%	10%-100% Rated load
Loading effect				±0.6	%	10%-100% Rated load
Source effects				±0.1	%	
Ripple (peak-to-peak)				150	mV	100% of Rated load
Prototype peak efficiency		96.3			%	Rated load
Batch peak efficiency		96			%	Rated load
Temperature coefficient				±0.02	%/℃	20℃
Dynamically respond to recovery times				50	ms	
				±5	%	

Boot time	3		10	s	
Switching on and off overshoot			5	%	50-100% rated load
Steady flow accuracy			±3	%	20%-100% rated load
Hold time	20			ms	
Environment data					
Operating temperature	-40 to +75			℃	
Storage temperature	-40 to +85			℃	
relative humidity	≤95			%	
atmospheric pressure	70-106			kPa	
Cooling method	Air-cooled				
Noises	< 58			dB	
Ground resistance	≤0.1			Ω	
Leakage current	3.5			mA	
Safety standards					
ESD immunity requirements: EN/IEC 61000-4-2, level 3					
Radiation immunity: EN/IEC 61000-4-3, level 3					
Fast transient burst immunity requirements: EN/IEC 61000-4-4, level 3					
Lightning strike: EN/IEC61000-4-5 Level 4, ANSI C62.41 Level A3					
Conductive immunity: EN/IEC 61000-4-6 level 3					
Harmonic emission: EN/IEC61000-3-2					
Radiated emissions*: EN55022, Class B					
Conducted emissions: EN55022, Class A					
Environment alarms					
Items	Description				Remark
Short-circuit protection	Retracts to a given current value				Automatically resume work after the fault is eliminated
Overvoltage protection	Settable, manually resume work				No DC output after protection
Undervoltage alarm	Monitoring alarm				Not available for individual modules
Overvoltage protection point	Module powered off				Restored when voltage return
Undervoltage shutdown	Module shutdown				
Over-temperature protection	At >75℃, the module shuts down				
Power over-temperature protection	Module shutdown protection				When the temperature drops to the recovery point, work can be

		automatically resumed
Fan temperature control	Linear speed regulation	
Output-limited power control	When the output voltage is 48.0V~58.0V, the constant power control, the maximum output power is 3000W, and when the output voltage is 42.0~48.0V, the maximum output current limiting point is 62.5A	

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