

Off-Grid Solar Inverter Rack Mounted

AKSPI-RM Series



▼ Main Features

- Adopt standard 3U rack structure design, especially suitable for use with lithium batteries
- Pure sine wave output, can meet the use of various types of loads
- The maximum PV open circuit voltage is 450V, when the energy is sufficient, it can be loaded without the battery
- Built-in MPPT solar controller
- With multi-mode setting function, the priority level of photovoltaic, utility power and battery can be selected and set through the LCD screen
- It has a wide range of mains input voltage, which can be selected through LCD to meet different power requirements
- With battery over-discharge, overload protection, over-temperature protection, short-circuit protection and other protection functions
- When the battery is discharged and the inverter is turned off, the inverter will automatically turn on when the photovoltaic or mains power is restored.
- With cold start function; support USB, RS485 monitoring function
- WIFI intelligent monitoring function, support mobile APP to view various data (optional)
- Redundant parallel function (Optional)

▼ Technical Parameter

Model	AKSPI-3KW-24V-RM		AKSPI-5KW-48V-RM	
Rated Capacity	3000VA/3000W		5000VA/5000W	
Input				
Input Format	L+N+PE			
Rated input voltage	208/220/230/240VAC			
Voltage Range	Appliance mode: 90~280V; UPS mode: 170~264V			
Input Frequency	50Hz/60Hz(Auto sensing)			
Output				
Output Format	L+N+PE			
Rated output voltage	208/220/230/240VAC ± 5%			
Output frequency	50/60Hz ± 0.1%			
Waveform	Pure sine wave			
Transfer Time	10ms			
Peak Power	6000VA		10000VA	
Overload Capacity (Battery Mode)	1min@102%~110% Load 3s@130%~150% Load		10s@110%~130%Load 200ms@>150% Load	
Peak Efficiency (Battery Mode)	>93%		>94%	
Battery				
Rated voltage	24 VDC		48 VDC	
Constant voltage charging voltage (can be set)	28.2 VDC		56.4 VDC	
Float charging voltage (can be set)	27 VDC		54 VDC	
Solar Charger&AC Charger				
Solar Charger type	MPPT			
PV maximum input power	4000W		5500W	
MPPT tracking range	120~430 VDC			
Maximum PV input voltage	500 VDC			
Maximum PV Charge Current	80 A			
Maximum mains charging current	60 A		80 A	
Maximum charging current	120A		80 A	
Communication Interface				
RS232	5PIN/Pitch2.0mm, baud rate 2400			
Expansion slot communication interface	2 × 5PIN/Pitch2.54mm, Lithium battery BMS communication card, WIFI card, dry contact card,etc.			
Parallel interface	No parallel		With parallel	
Environmental Parameters				
Operating ambient temperature	0~40℃			
Operating environment humidity	20%~95% (Non-condensing)			
Storage temperature	- 15~60℃			
Altitude	Altitude should not exceed 1000m, derating above 1000m, maximum 4000m, refer to IEC62040			
Noise	≤50db			
Physical parameters				
D × W × H(mm)	405 × 483 × 133.5			
Weight (net weight)(Kg)	7		7.8	