

Solar Refrigerator Inverter SKN-RF Series

> MAIN FUNCTION

- High efficiency more than 91%
- With AC and Solar charger , hybrid technology
- Low self consume when no load status
- Solar first,AC second model"
- High capacity against refrigerator start current
- With AVR function
- Inverter technology when refrigerator starting



DVD type

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> TECHNICAL PARAMETER

SPECIFICATION	MODEL	SKN-RF 300L
Name Of Parts Specifications		Parameters
"Mono-Crystalline Solar Panels"		
The Maximum Power Of Solar Panels (W)		300W * 2PCS
The Short Circuit Current Of Solar Panels (A)		9.00A
The Maximum Power Current Of Solar Panels (A)		8.34A
The Open Circuit Voltage Of Solar Panels (VDC)		44.64VDC
The Maxium Power Voltage Of Solar Panels (VDC)		36VDC
Solar Charge Controller		
Rated Voltage (VDC)		12/24VDC Auto
Rated Solar Charge Current (A)		20A Max.
Input P.V. Max. (VDC)		≤50VDC
Rated Efficiency		≥95% (No Load Draw≤3%)
Battery Features		
Sealed Lead Acid Battery		12VDC/100AH * 2PCS
Rated Battery Voltage (VDC)		12VDC
Rated Input Voltage Range (VDC)		10.5~16.0VDC/21.0~32.0VDC
AC Function Features		
Input Voltage (VAC)		220VAC
Input Voltage Range (VAC)		110~270VAC
Input Frequency Range (VAC)		45~55Hz
Charge Current (A)		10A/16A
Output Voltage & Frequency		Same As Input
Efficiency		>96%
Work Mode Without Solar Power Input		Work At Bypass & Charge Mode
Work Mode With Solar Power Input		Only Bypass & No AC Charge Mode (Battery<12VDC) Inverter Mode (Battery>13.5VDC)
Automatic Charge Mode		"Three Stage Charge Mode:Boost CC (Constant Current Stage)Boost CV (Constant Voltage Stage)Float (Constant Voltage Stage)"
Inverter Features		
Rated Output Power (W)		For less than 300L refrigerator (Compressor Power Max.200W)
Rated Output Voltage (VAC)		230VAC±5%
Output Phase		Single Phase
Output Frequency (Hz)		35Hz~50Hz (Frequency go down and recovery slowly(Load>150%))
Output Waveform		Pure Sine Wave
Total Harmonic Distortion		≤5%
Crest Factor		3:1
Transfer Time (ms)		10ms
Efficiency		>91%
Protection Function		
Over Load Capacity		"(100%<Load<125%)±10%: Fault (Shutdown Output) After 2 Mins(125%<Load<150%) ±10%: Fault (Shutdown Output) After 60S(150%<Load<200%) ±10%: Fault (Shutdown Output) After 10SLoad>200% ±10%: Fault (Shutdown Output) After 3S"
Output Overload Protection		Shutdown Output After 90S
Output Shortcircuit Protection		Shutdown When Shortcircuit
Input Lowvoltage Protection		Sound-Light Alarm (<11VDC)
Overtemperature Protection and Recovery		Shutdown Output Upon 90°C,Recovery Lower 65°C
Environmental		
Noise (dB)		50dB Max. (1 Meter)
Operating Temperature		0°C ~ 40°C Degree
Storage Temperature		-40°C ~ 50°C Degree (Recommended For Batteries)
Humidity		0% to 90% (No Condensation)
Altitude (M)		≤ 1500m