



SKN-S Series



TECHNICAL PARAMETER

MODEL	SKN-S 1KW	SKN-S 2KW	SKN-S 3KW	SKN-S 4KW	SKN-S 5KW	SKN-S 6KW
DC INPUT						
Input Voltage(Vdc)	12V/24V48V			24V/48V		
Min DC start voltage(Vdc)	10V/20V			20V/40V		
AC Bypass						
Nominal Input Voltage(Vac)	110V or 230V				230V	
Input AC Range(Vac)	110V:80-140V or 220V:165V-265V(Wide)/ 185-265V(Narrow) or 90-265V(1-3KW)				165V-265V(Wide) 185-265V(Narrow)	
Frequency Range(Hz)	50Hz or 60Hz(47Hz -53Hz for 50Hz)-----{57Hz -63Hz for 60Hz}					
Input Frequency(Hz)	50Hz/ 60Hz (Auto detection)					
Bypass Output Voltage(Vac)	same as input voltage					
Bypass Output Frequency(Hz)	same as input frequency					
Pass through without Battery	Yes					
Max Bypass Overload Current	10A	30A			40A	
AC Efficiency	> 95%					
Transfer Time(ms)	20ms (typical)					
CHARGER						
Charging mode Input Voltage Range	85-135V or 175-255V(wide)/195-255V(narrow)				175-255V(wide)/195-255V(narrow)	
Automatic Charge mode	Three stages charge mode:Boost CC (constant current stage) → Boost CV (constant voltage stage) → Float (constant voltage stage)					
Nominal Charge Voltage	According to the battery type setup					
Charging Current(A)	70A(maxi)					
INVERTER						
Capacity(VA)	1000	2000	3000	4000	5000	6000
Output Power(W)	1000	2000	3000	4000	5000	6000
Power Factor(PF)	1					
Output Voltage	120VAC or 230VAC (Pure Sine Wave)230VAC (Pure Sine Wave)					
Output Frequency	50/60 ± 0.3Hz(auto tracking main first power connection)					
Wave Form	pure sine wave					
Inversion Efficiency	>88%					
Over load capacity	"(110%<load<125%) ±10%: Fault (shutdown output) after 15 minutes;(125%<load<150%) ±10% : Fault (shutdown output) after 60s;Load>150% ±1					
saver	Load ≤25W (Enabled on "P/S auto" setting of Remote control)					

TECHNICAL PARAMETER

SPECIFICATION	MODEL	SKN-S 1KW	SKN-S 2KW	SKN-S 3KW	SKN-S 4KW	SKN-S 5KW	SKN-S 6KW
DC INPUT							
Input Voltage(Vdc)		12V/24V/48V			24V/48V		
Min DC start voltage(Vdc)		10V/20V			20V/40V		
AC Bypass							
Nominal Input Voltage(Vac)		110V or 230V				230V	
Input AC Range(Vac)		110V:80-140V or 220V:165V-265V(Wide)/185-265V(Narrow) or 90-265V(1-3KW)				165V-265V(Wide) 185-265V(Narrow)	
Frequency Range(Hz)		50Hz or 60Hz(47Hz -53Hz for 50Hz)-----{57Hz -63Hz for 60Hz}					
Input Frequency(Hz)		50Hz/ 60Hz (Auto detection)					
Bypass Output Voltage(Vac)		same as input voltage					
Bypass Output Frequency(Hz)		same as input frequency					
Pass through without Battery		Yes					
Max Bypass Overload Current		10A	30A			40A	
AC Efficiency		> 95%					
Transfer Time(ms)		20ms (typical)					
CHARGER							
Charging mode Input Voltage Range		85-135V or 175-255V(wide)/195-255V(narrow)				175-255V(wide)/195-255V(narrow)	
Automatic Charge mode		Three stages charge mode:Boost CC (constant current stage) → Boost CV (constant voltage stage) → Float (constant voltage stage)					
Nominal Charge Voltage		According to the battery type setup					
Charging Current(A)		70A(maximum)					
Charge boost voltage(v)		According to the battery type setup(12V BAT:14-15.5v 24V BAT:28-31V 48V BAT:56-62V 96V BAT:112-124V)					
Charge Floating Voltage(V)		According to the battery type setup (12V BAT: 13.3-13.7,24v BAT: 26.6-27.6,48V BAT:53.2-55.2V 96V BAT:106.4-110.4V)					
Over Charge Protection		Bat. V ≥15.7Vdc, beeps 0.5s every 1s & fault after 60s (15.7 for 12v, 31.4V for 24V, 62.8V for 48V, 125.6V for 96V)					
Charger Short Circuit Protection		Circuit breaker					
INVERTER							
Capacity(VA)		1000	2000	3000	4000	5000	6000
Output Power(W)		1000	2000	3000	4000	5000	6000
Power Factor(PF)		1					
Output Voltage		120VAC or 230VAC (Pure Sine Wave)230VAC (Pure Sine Wave)					
Output Frequency		50/60 ± 0.3Hz(auto tracking main first power connection)					
Wave Form		pure sine wave					
Inversion Efficiency		>88%					
Over load capacity		"(110%<load<125%) ±10%: Fault (shutdown output) after 15 minutes;(125%<load<150%) ±10% : Fault (shutdown output) after 60s;Load>150% ±10%: Fault (shutdown output) after 20s"					
Low Battery Alarm		10.5Vdc ± 0.3Vdc for 12V battery, 21.0Vdc ± 0.6Vdc for 24V battery, 42.0Vdc ± 1.2Vdc for 48V battery, 84.0Vdc ± 2.4Vdc for 96V battery					
Power saver		Load ≤25W (Enabled on "P/S auto" setting of Remote control)					
AMBIENT							
Noise(dB)		60dB max.					
Temperature		0°C to 40°C					
Humidity		5% to 95%					
Sea Level(m)		≤1500					
DIMENSION							
Product size L×W×H(mm)		L438mm*W184mm*H181mm			L608mm*W184mm*H181mm		
Packing size		L590mm*W312mm*H295mm			L808mm*W360mm*H352mm		
Weight(Kg)		16.5/17.5	19/20	24/25	34/37	38.5/41.5	44.5/47.5