

# SKN-SS Series Low Frequency Solar Inverter



SKN-SS 1-10KW



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## > TECHNICAL PARAMETER

SPECIFICATION	MODEL	SKN-SS1KW	SKN-SS 2KW	SKN-SS 3KW	SKN-SS 4KW	SKN-SS 5KW	SKN-SS 6KW
<b>DC Input</b>							
Input Voltage(Vdc)		12V/24V/48V			24V/48V		
Min DC start voltage(Vdc)		10V/20V/40V			20V/40V		
<b>AC Bypass</b>							
Nominal Input Voltage		110V or 230Vac(waveform:Sine or generator)				230Vac	
Input AC Range(Vac)		90Vac±4%-135Vac±4% or 184Vac±4%-253Vac±4%				184Vac±4%-253Vac±4%	
Frequency Range(HZ)		57Hz 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)					
<b>Solar controller</b>							
Solar controller		with 10A,20A,30A,40A,50A,60A,80A 12V/24V/48V ( options controller price will be extra added )					
<b>AC CHARGER</b>							
Charge mode Input Voltage Range		95~127Vac or 196~243Vac			196~243Vac		
Automatic Charge mode		Three stage 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					
Charge Current(A)		maximum 70A					
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					
<b>INVERTER</b>							
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 (Sine wave)				230VAC (Sine wave)	
Output Frequency		50/60 ± 0.3Hz(auto tracking main first power connection)					
Wave		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)					
<b>AMBIENT</b>							
Noise(dB)		60dB max.					
Temperature		0°C to 40°C					
Humidity		5% to 95%					
Sea Level(m)		≤1500					
<b>DIMENSION</b>							
Product size L×W×H(mm)		L488mm*W219mm*H304mm			L608mm*W219mm*H304mm		
Packing size		L640mm*W312mm*H419mm			L760mm*W312mm*H419mm		