



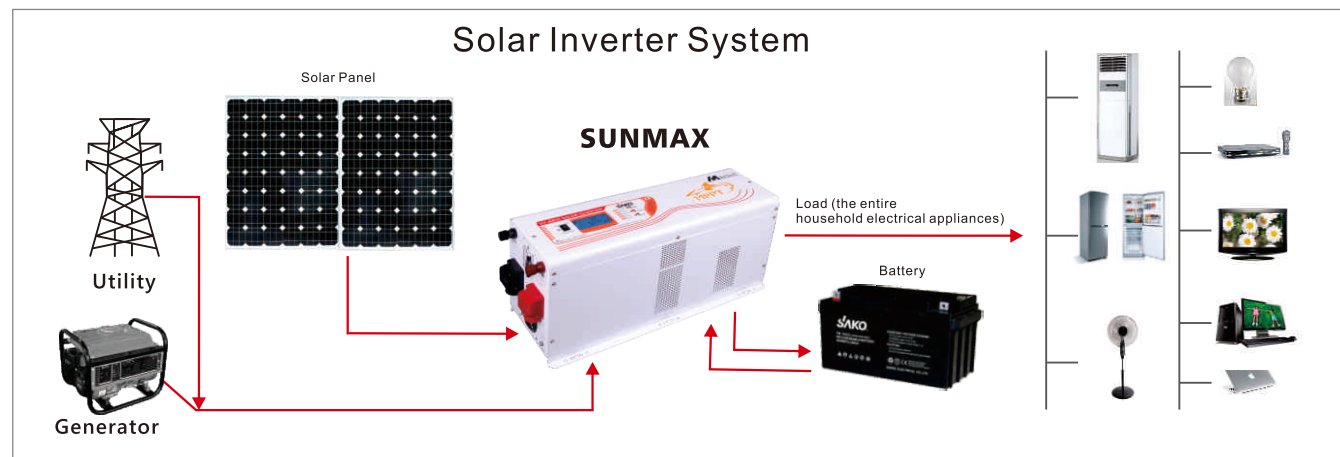
MPPT Solar Inverter



SUNMAX Series



Solar System Connection



MPPT Solar Inverter



TECHNICAL PARAMETER

MODEL	SUNMAX-1KW	SUNMAX-2KW	SUNMAX-3KW	SUNMAX-4KW	SUNMAX-5KW	SUNMAX-6KW
DC INPUT						
Input Voltage(Vdc)	12V/24V			24V/48V		
Min DC start voltage(Vdc)	10V/20V			20V/40V		
AC Bypass						
Nominal Input Voltage1	10V or 230Vac (Waveform: Sine wave or as 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					
Max Bypass Overload Current	10A		30A		40A	
AC Efficiency	> 95%					
Transfer Time(ms)	20ms (typical)					
MPPT CHARGE CONTROLLER BUILT INSIDE						
The rated charge current (A)	30A	40A	50A	50A	60A	60A
Solar charge controller(Optional)	PWM 50A	PWM 50A	PWM 50A	PWM 50A	PWM 50A	PWM 50A
Max PV input voltage(Vdc)	≤150Vdc					
The battery voltage (Vdc)	12V/24V/48V Auto identify and adaptive					
CHARGER						
Charge mode Input Voltage Range	80~145Vac or 95~255Vac				100~255Vac	
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)	17.5A/35A/70A					
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	120V 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;					
Low Battery Alarm	10.5Vdc ± 0.3Vdc for 12V battery, 21.0Vdc ± 0.6Vdc for 24V battery, 42.0Vdc ± 1.2Vdc for 48V battery					
Power saverLoad	≤25W					