

SOF Plus Series Off-Grid Solar Inverter

Product Description

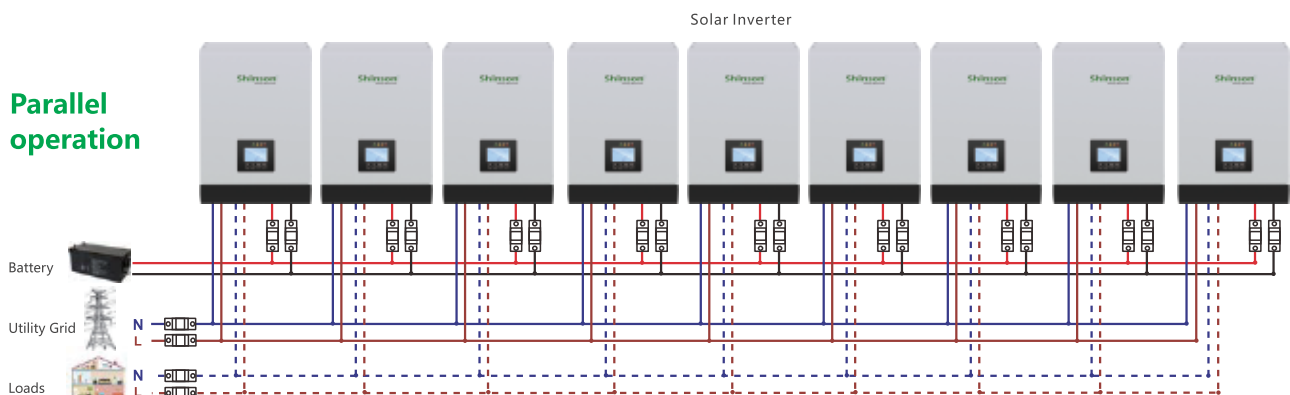
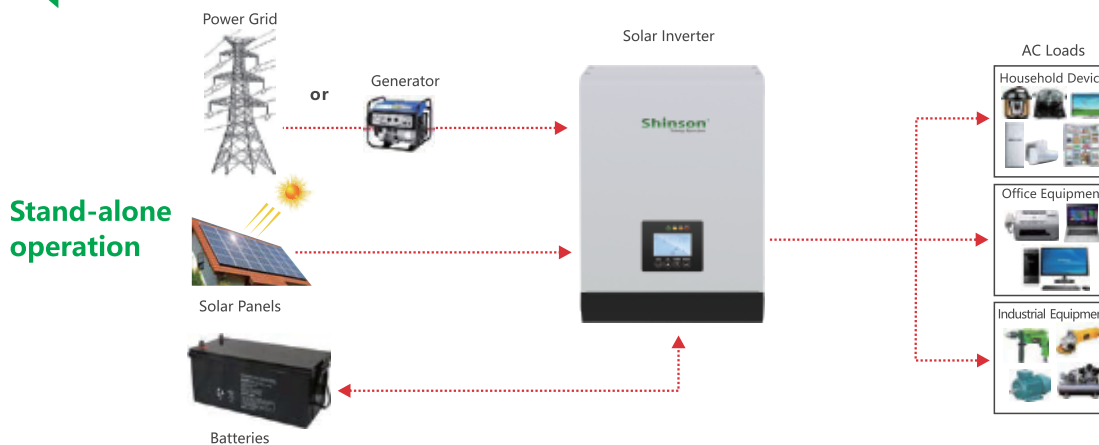
- Pure sine wave output ;
- High frequency design ,high efficiency with low no-load loss ;
- Built-in MPPT solar controller ;
- Combining solar system, AC utility, and battery power source to supply continuous power ;
- Smart LCD setting (Working modes, Charging Current, Charge Voltage, AC Output voltage/frequency, etc) ;
- LED+LCD display is easy to operate ;
- Support provide the power to the load without battery (Without parallel operation) ;
- Multi-protection function(Overload, over temperature, short circuit protection ,etc) ;
- Parallel operation with up to 9 units (Need to be equipped with parallel plate, only 5KW model support) ;
- Support USB, RS232 communication , APP (WIFI, etc optional).



Application Area

- Office and public facilities, household system, network transmission equipment, manufacturing, control system, solar energy system, oil field, drilling field operation, etc.
- Provide stable, reliable and safe solutions for families, islands, ships and other small photovoltaic power systems

System Application Diagram



Technical Parameters

Model: HP Plus		SPLUS-3K	SPLUS-5K	
Rated Power		3000W	5000W	
Peak Power (20ms)		9KVA	15KVA	
Battery Voltage		24VDC	48VDC	
Size(L*W*Hmm)		440x300x110		
Package Size(L*W*Hmm)		515x375x205		
N.W.(kg)		8.5	9.5	
G.W.(kg)		9.5	10.5	
Installation Method		Wall-Mounted		
PV	Charging Mode	MPPT		
	Rated PV input voltage	30V-60VDC	360VDC	
	MPPT tracking voltage range	30V-115VDC	120V-430VDC	
	Max PV Input Voltage Voc (At the lowest temperature)	145VDC	450VDC	
	PV Array Maximum Power	1500W	5500W	
	PV Array Maximum Power	1		
Input	DC Input Voltage Range	21V-30VDC	42-60VDC	
	Rated AC input voltage	208VAC/220VAC/230VAC/240VAC		
	AC Input Voltage Range	90VAC~280VAC(Appliance mode)/170VAC~280VAC(UPS mode)		
	AC Input Frequency Range	40Hz~70Hz (default)		
Output	Efficiency(Battery/PV Mode)	94%(Peak value)		
	Output Voltage(Battery/PV Mode)	208VAC±2%/220VAC±2%/230VAC±2%/240VAC±2%(INV mode)		
	Output Frequency(Battery/PV Mode)	50Hz/60Hz±0.1%		
	Output Wave(Battery/PV Mode)	Pure Sine Wave		
	Efficiency(AC Mode)	>99%		
	Output Voltage(AC Mode)	Follow input		
	Output Frequency(AC Mode)	Follow input		
	Output waveform distortion Battery/PV Mode)	≤3%(Linear load)		
	No load loss(Battery Mode)	≤1% rated power		
	No load loss(AC Mode)	≤0.5% rated power(charger does not work in AC mode)		
Battery	Battery Type	VRLA Battery	Charge Voltage :28.2V; Float Voltage:27V	Charge Voltage :56.4V; Float Voltage:54V
		Customize battery	Charging and discharging parameters of different types of batteries can be customized according to user requirements (charging and discharging parameters of different types of batteries can be set through the operation panel)	
	Max AC Charging Current	120A	60A	
	Max PV Charging Current	60A	80A	
	Maximum Charging Current (Mains+PV)	120A	80A	
Charging method	Three-stage (constant current, constant voltage, floating charge)			
Protection	Battery low voltage alarm	Factory default: 22V	Factory default: 44V	
	Battery low voltage protection	Factory default: 41V	Factory default: 42V	
	Battery over voltage protection	32VDC	61VDC	
	Overload power protection	Automatic protection (battery mode), circuit breaker or insurance (AC mode)		
	Inverter output short circuit protection	Automatic protection (battery mode), circuit breaker or insurance (AC mode)		
	Temperature protection	>90°C(Shut down output)		
Working Mode	Mains priority/PV priority/Battery priority(Can be set)			
Transfer Time	10ms (typical value)			
Display	LCD+LED			
Thermal method	Cooling fan in intelligent control			
Communication(Optional)	RS232/USB/APP(WIFI monitoring or GPRS monitoring)			
Environment	Operating temperature	-10°C~40°C		
	Storage temperature	-15°C~60°C		
	Noise	≤55dB		
	Elevation	2000m(More than derating)		
	Humidity	0%~95% (No condensation)		

Above parameter revision change without notification.