

Off Grid Solar Inverter

Low Frequency **SX-DP SERIES**

- **1KW/1.5KW/2KW/3KW/
4KW/5KW/6KW/7KW**
- **110V/220V**
- **12V/24V/48V**



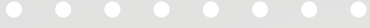
SX-DP Series is a combination of low frequency inverter, AC charger and MPPT solar controller

Features :

- Pure sine wave output
- Low frequency toroidal transformer increase efficiency
- Integrated LCD display;One-button start with an external display screen(optional)
- Dedicated DCP chip design;stable and high-speed operation
- LCD display,easy to monitor the operation condition in real time
- AC charge current 0-30A adjustable;battery capacity configuration more flexible
- Three types working modes adjustable:AC first,DC first,energy-saving mode
- AVR output,all-around automatic protection function
- Frequency adaptive function,adapt to different grid environments
- Built-in PWM or MPPT controller optional
- Added fault codes query function,facilitate user to monitor the operation state in real time
- Supports diesel or gasoline generator,adapt any tough electricity situation
- RS485 communication port/APP optional



More Image



Application

Designed for Areas with:

Unstable grid power, need backup power .

Main concern is sustainable power supply .

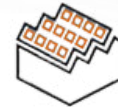


Ground-mounted solar power system

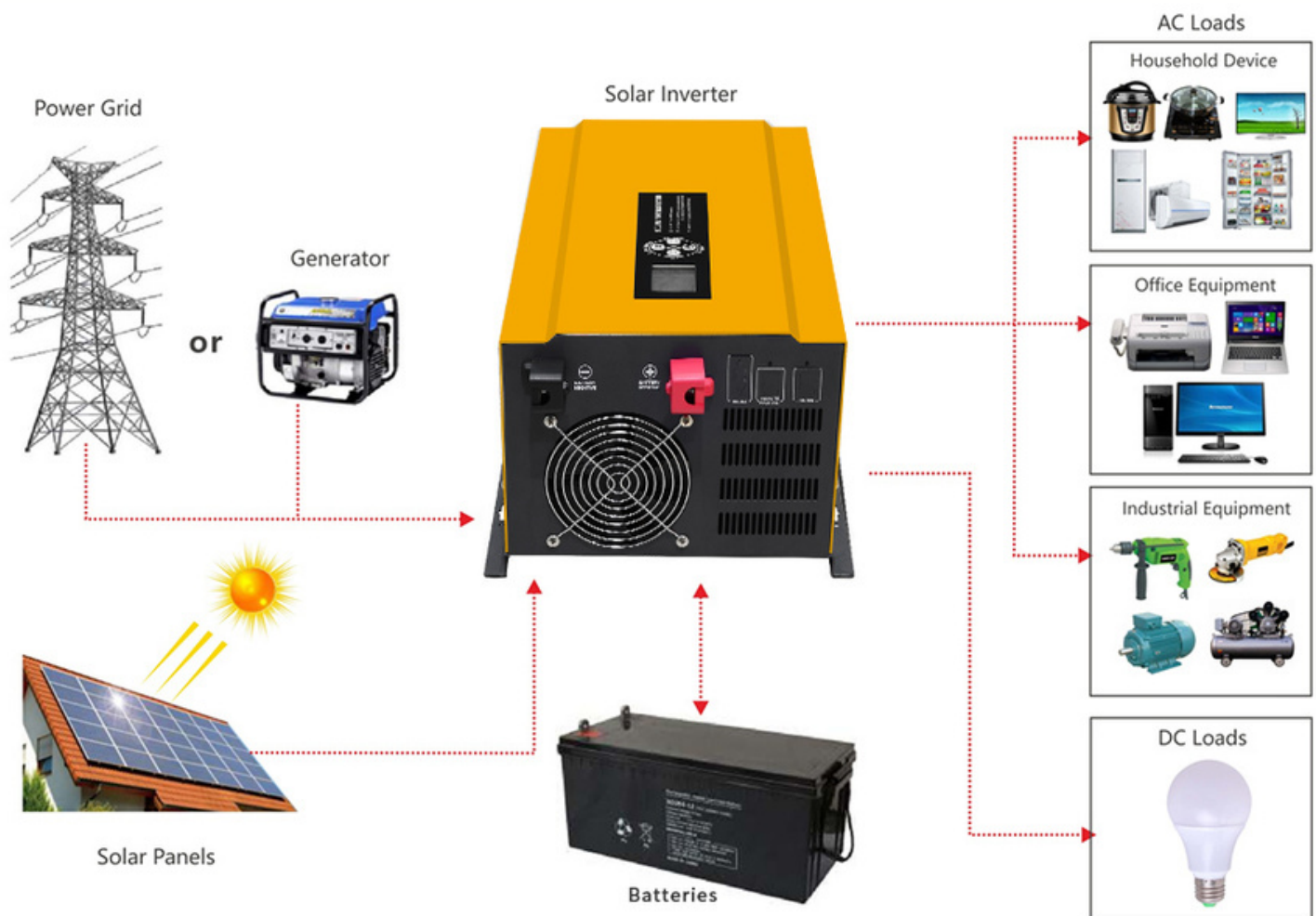
Designed for Areas with :

Stable grid power, but electricity price is expensive .

Main concern is reducing electricity bills.



Rooftop system on residential buildings



Data sheet

Model: DP		10212/24/48	15212/24/48	20212/24/48	30224/48	40224/48	50248	60248	70248
Rated Power		1000W	1500W	2000W	3000W	4000W	5000W	6000W	7000W
Peak Power(20ms)		3000VA	4500VA	6000VA	9000VA	12000VA	15000VA	18000VA	21000VA
Start Motor		1HP	1.5HP	2HP	3HP	3HP	4HP	4HP	5HP
Battery Voltage		12/24/48VDC			24/48VDC	24/48VDC	48VDC		
Size(L*W*Hmm)		555*297*184				615*315*209			
Package Size(L*W*Hmm)		620*345*255				680*365*280			
N.W.(kg)		12	13	15.5	18	23	24.5	26	27.5
G.W.(kg)(Carton Packing)		14	15	17.5	20	25.5	27	28.5	30
Installation Method		Wall-Mounted							
Input	DC Input Voltage Range	10.5-15VDC (Single battery voltage)							
	AC Input Voltage Range	85VAC~138VAC (110VAC) / 95VAC~148VAC (120VAC) / 170VAC~275VAC (220VAC) / 180VAC~285VAC (230VAC) / 190VAC~295VAC (240VAC)							
	AC Input Frequency Range	45Hz~55Hz(50Hz) / 55Hz~65Hz(60Hz)							
	Max AC charging current	0~30A (Depending on the model)							
	AC charging method	Three-stage (constant current, constant voltage, floating charge)							
Output	Efficiency(Battery Mode)	≥85%							
	Output Voltage(Battery Mode)	110VAC±2% / 120VAC±2% / 220VAC±2% / 230VAC±2% / 240VAC±2%							
	Output Frequency(Battery Mode)	50/60Hz±1%							
	Output Wave(Battery Mode)	Pure Sine Wave							
	Efficiency(AC Mode)	>99%							
	Output Voltage(AC Mode)	110VAC±10% / 120VAC±10% / 220VAC±10% / 230VAC±10% / 240VAC±10%							
	Output Frequency(AC Mode)	Follow input							
	Output waveform distortion(Battery Mode)	≤3% (Linear load)							
	No load loss(Battery Mode)	≤0.8% rated power							
	No load loss(AC Mode)	≤2% rated power(charger does not work in AC mode)							
Battery Type	VRLA Battery	Charge Voltage :14.2V; Float Voltage:13.8V(12V system; 24V system x2; 48V system x4)							
	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)							
Protection	Battery undervoltage alarm	Factory default: 11V(12V system; 24V system x2; 48V system x4)							
	Battery undervoltage protection	Factory default: 10.5V (12V system; 24V system x2; 48V system x4)							
	Battery overvoltage alarm	Factory default: 15V(12V system; 24V system x2; 48V system x4)							
	Battery overvoltage protection	Factory default: 17V(12V system; 24V system x2; 48V system x4)							
	Battery overvoltage recovery voltage	Factory default: 14.5V(12V system; 24V system x2; 48V system x4)							
	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)							
Alarm	A	Normal working condition, buzzer has no alarm sound							
	B	Buzzer sounds 4 times per second when battery failure, voltage abnormality, overload protection							
	C	When the machine is turned on for the first time, the buzzer will prompt 5 when the machine is normal							
Inside Solar controller (Optional)	Charging Mode	PWM or MPPT							
	Charging current	10A~60A (PWM or MPPT)				10A~60A(PWM) / 10A~100A(MPPT)			
	PV Input Voltage Range	PWM: 15V-44V(12V system); 30V-44V(24V system); 60V-88V(48V system) MPPT: 15V-120V(12V system); 30V-120V(24V system); 60V-120V(48V system)							
	Max PV Input Voltage(Voc) (At the lowest temperature)	PWM: 50V(12V/24V system); 100V(48V system) / MPPT: 150V(12V/24V/48V system)							
	PV Array Maximum Power	12V system: 140W(10A)/280W(20A)/420W(30A)/560W(40A)/700W(50A)/840W(60A)/1120W(80A)/1400W(100A) ; 24V system: 280W(10A)/560W(20A)/840W(30A)/1120W(40A)/1400W(50A)/1680W(60A)/2240W(80A)/2800W(100A) ; 48V system: 560W(10A)/1120W(20A)/1680W(30A)/2240W(40A)/2800W(50A)/3360W(60A)/4480W(80A)/5600W(100A)							
	Standby loss	≤3W							
Maximum conversion efficiency	>95%								
Working Mode		Battery First/AC First/Saving Energy Mode							
Transfer Time		≤4ms							
Display		LCD (External LCD Display(Optional))							
Thermal method		Cooling fan in intelligent control							
Communication(Optional)		RS485/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)							
Warranty		1 year							