

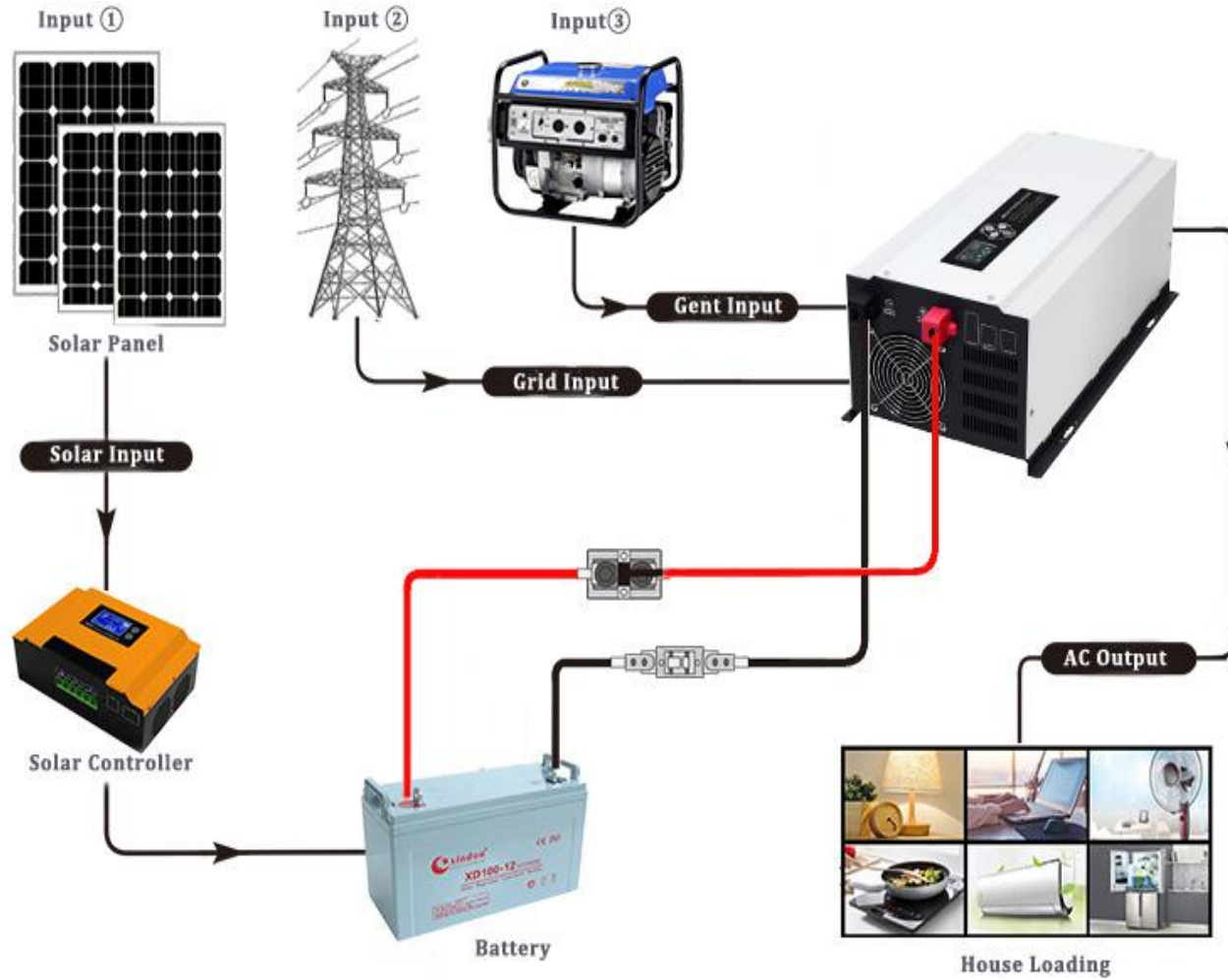
MP Inverter Charger/ Solar Inverter Charger (1KW-7KW)

Feature :

- ◆ Low frequency toroidal transformer increase efficiency , Pure sine wave output ;
- ◇ 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 ;



System Application Diagram



Specification

Model MP	10212/24	15212/24/48	20212/24/48	30224/48	35224/48	40224/48	50248	60248	70248
Rated Power	1000W	1500W	2000W	3000W	3500W	4000W	5000W	6000W	7000W
Peak Power (20ms)	3000W	4500W	6000W	9000W	10500W	12000W	15000W	18000W	21000W
Start Motor	1HP	1.5HP	2HP	3HP	3HP	3HP	4HP	4HP	5HP
Battery Voltage	12/24VDC	12/24/48VDC		24/48VDC		24/48VDC	48VDC		
Size(L*W*Hmm)	555*297*184					615*315*209			
Packing Size(L*W*Hmm)	620*345*255					680*365*280			
N.W.(kg)	12	13	15.5	18	19	23	24.5	26	27.5
G.W.(kg) (Carton Packing)	14	15	17.5	20	21	25.5	27	28.5	30
Installation Method	Wall-Mounted								

Parameter

Input	DC Input Voltage Range	10.5-15VDC (Single battery voltage)
	AC Input Voltage Range	85VAC~138VAC / 170VAC~275VAC / 180VAC~285VAC / 190VAC~295VAC
	AC Input Frequency Range	45Hz~65Hz
	Max AC charging current	0~30A (Depending on the model)
	AC charging method	Three-stage (constant current, constant voltage, floating charge)
	Efficiency(Battery Mode)	≥85%
	Output Voltage(Battery Mode)	110VAC±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	Output Voltage(AC Mode)	110VAC±10% / 220VAC±10% / 230VAC±10% / 240VAC±10%	
	Output Frequency(AC Mode)	Tracking Automatically	
	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)	
	No load loss(Energy saving Mode)	≤10W	
Battery Type	VRLA Battery	Charge Voltage :14V; 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)	
Alarm	Temperature protection	>90°C (Shut down output)	
	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	
	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)	

Inside Solar controller (Optional)	Max PV Input Voltage (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/280W/420W/560W/700W/840W/1120W/1400W; 24V system: 280W/560W/840W/1120W/1400W/1680W/2240W/2800W; 48V system: 560W/1120W/1680W/2240W/2800W/3360W/4480W/5600W
	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)		RS232/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		3 year
Note: All specifications are subject to charge without prior notice		