Inverter Charger/Hybrid Solar Inverter

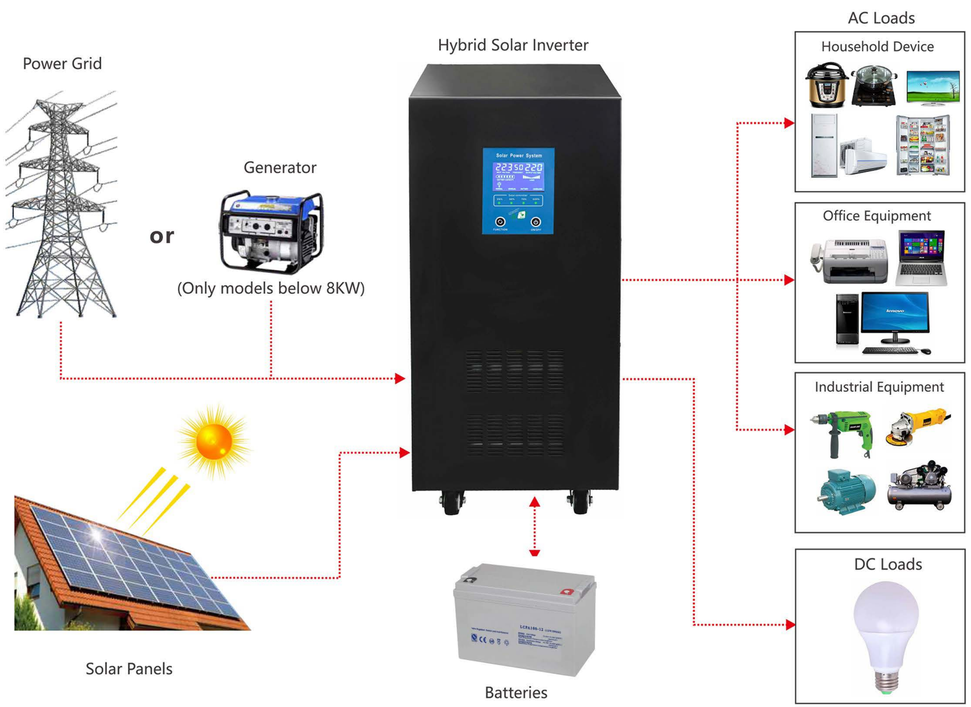
Feature

- Pure sine wave output ;
- Wide AC voltage input range, AVR output;
- Adopt traditional EI transformer , stable performance;
- LCD real-time display, concise and straightforward;
- Working modes: AC first or battery first optional, intelligent charging;
- Built-in MPPT or PWM charge controller optional;
- RS232 communication port 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		35112/24	50112/24	70124	70112	10212/24	15224/48	20248	20224	30224/48	40248/96
Rated Power		350W	500W	700W	700W	1000W	1500W	2000W	2000W	3000W	4000W
Peak Power(20ms)		1050W	1500W	2100W	2100W	3000W	4500W	6000W	6000W	9000W	12000W
Start Motor		0.3HP	0.5HP	0.5HP	0.5HP	1HP	1.5HP	2HP	2HP	3HP	3HP
Battery Voltage		12/24VDC		24VDC	12VDC	12/24VDC	24/48VDC	48VDC	24VDC	24/48VDC	48/96VDC
Inside Solar controller(Optional)		10A~30A(PWM)			10A~60A(PWM or MPPT(12V~48V))						
Size(L*W*Hmm)		335*210*122			410*143*210		400*180*320		420*208*348		460*245*445
Package Size(L*W*Hmm)		385*270*185			460*200*270		460*240*380		490*300*400		535*310*505
N.W.(kg)		6.5	8	10	11	13	18	21	23	29	46
G.W.(kg)(Carton Packing)		7.5	9	11	12	14	19	22	24	30	48
Installation Method		Desktop			Tower						
Model		**50248/96**	**60248/96**	**70296/192**	**10396/192**	**12396/192**	**153192/240**	**203192/240**	**253240**	**303240**	**403384**
Rated Power		5000W	6000W	7000W	10KW	12KW	15KW	20KW	25KW	30KW	40KW
Peak Power(20ms)		15KW	18KW	21KW	30KW	36KW	45KW	60KW	75KW	90KW	120KW
Start Motor		4HP	4HP	5HP	7HP	7HP	10HP	10HP	15HP	15HP	20HP
Battery Voltage		48/96VDC		96/192VDC			192/240VDC		240VDC	240VDC	384VDC
Inside Solar controller(Optional)		10A~60A(PWM or MPPT(48V))		50A/100A(PWM) or 50A(MPPT)						50A/100A/150A/200A(PWM)/ 50A/100A(MPPT)	
Size(L*W*Hmm)		460*245*445		485*300*646			600*300*800			720*435*1120	
Package Size(L*W*Hmm)		530*315*550		550*365*785			665*365*830			790*505*1260	
N.W.(kg)		52	53	62	66	102	108	113	119	135	160
G.W.(kg)(Wooden Packing)		58	59	72	76	115	121	130	136	150	180
Installation Method		Tower									
Input	DC Input Voltage Range	10.5-15VDC（Single battery voltage）									
	AC Input Voltage Range	73VAC~138VAC / 145VAC~275VAC (350W~7000W) ; 98VAC~125VAC/195VAC~250VAC(8KW~40KW)									
	AC Input Frequency Range	45Hz~65Hz									
	Max AC charging current	6A~15A (Depending on the model)									
	AC charging voltage	LEAD battery：Charge Voltage :14V; Float Voltage:13.8V（Single battery voltage）									
	AC charging method	Three-stage (constant current, constant voltage, floating charge)									
Output	Efficiency(Battery Mode)	≥85%									
	Output Voltage(Battery Mode)	110VAC±2% / 220VAC±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% / 220VAC±10%									
	Output Frequency(AC Mode)	Tracking Automatically									
	Output waveform distortion(Battery Mode)	≤3%（Linear load）									
	No load loss(Battery Mode)	≤2.5% rated power（Models≤7KW）; ≤1% rated power（models>7KW）									
	No load loss(AC Mode)	≤2% rated power(charger does not work in AC mode)									
	No load loss(Energy saving Mode)	≤10W									
Battery Type (Optional)	Customize battery	Charge and discharge parameters of different types of batteries can be customized according to user requirements									
Protection	Battery undervoltage alarm	11V（Single battery voltage）									
	Battery undervoltage protection	10.5V（Single battery voltage）									
	Battery overvoltage alarm	15V（Single battery voltage）									
	Battery overvoltage protection	17V（Single battery voltage）									
	Battery overvoltage recovery voltage	14.5V（Single battery voltage）									
	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℃（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	MPPT or PWM									
	Charging current	12V/24V/48V system: 10A,20A,30A,40A,50A,60A; 96V/192V/240V/384V system: 50A,100A,150A,200A									
	PV Input Voltage Range	PWM: 15V-44V(12V system); 30V-44V(24V system); 60V-88V(48V system); 120V-176V(96V system); 240V-352V(192V system); 300V-440V(240V system); 480V-704V(384V system) MPPT: 15V-120V(12V system); 30V-120V(24V system); 60V-120V(48V system); 120V-240V(96V system); 240V-360V(192V system); 300V-400V(240V system); 480V-640V(384V system)									
	Max PV Input Voltage (At the lowest temperature)	PWM: 50V(12V/24V system); 100V(48V system); 200V(96V system); 400V(192V system); 500V(240V system); 750V(384V system) MPPT: 150V(12V/24V/48 system); 300V(96V system); 450V(192V system); 500V(240V system); 750V(384V system)									
	PV Array Maximum Power	12V system: 140W/280W/420W/560W/700W/840W; 24V system: 280W/560W/840W/1120W/1400W/1680W; 48V system: 560W/1120W/1680W/2240W/2800W/3360W； 96V system: (PWM: 5.6KW/11.2KW) / (MPPT: 5.6KW/5.6KW*2); 192V system: (PWM: 11.2KW/22.4KW/16.8KW*2/22.4KW*2) / (MPPT: 11.2KW/11.2KW*2); 240V system: (PWM: 14KW/28KW/21KW*2/28KW*2) / (MPPT: 14KW/14KW*2); 384V system: (PWM: 22.4KW/44.8KW/33.6KW*2/44.8KW*2) / (MPPT: 22.4KW/22.4KW*2)									
	Standby loss	≤3W									
	Maximum conversion efficiency	>95%									
Working Mode		Battery First/AC First/Saving Energy Mode									
Transfer Time		≤4ms									
Display		LCD									
Thermal method		Cooling fan in intelligent control									
Communication		RS232(Optional)									
Environment	Operating temperature	-10℃~40℃									
	Storage temperature	-15℃~60℃									
	Noise	≤55dB									
	Elevation	2000m（More than derating）									
	Humidity	0%~95% (No condensation)									
Warranty		1 year									

Note: 1. Specifications are subject to change without prior notice; 2. Special voltage and power requirements can be customized according to the actual situation of users.