NB Inverter Charger/Hybrid Solar Inverter

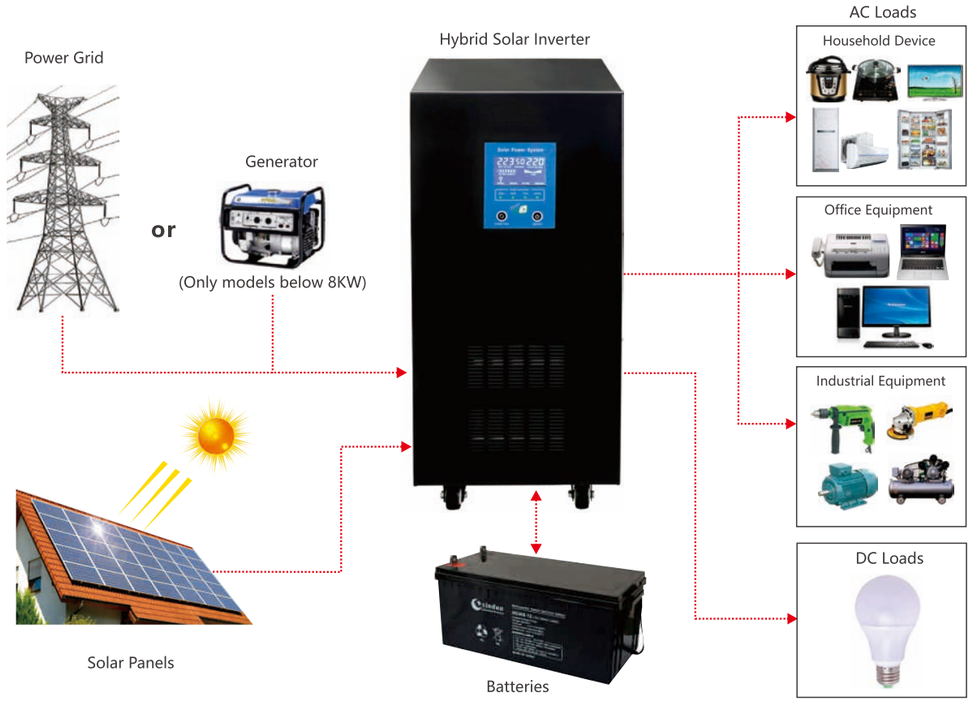
Feature

- 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: NB		35112/24	50112/24/48	60112/24/48	70124/48	70112	10212/24/48	12224	15224/48	20248	20224/96	25224/48	30224/48/96	35248/96	40248/96
Rated Power		350W	500W	600W	700W	700W	1000W	1200W	1500W	2000W	2000W	2500W	3000W	3500W	4000W
Peak Power(20ms)		1050VA	1500VA	1800VA	2100VA	2100VA	3000VA	3600VA	4500VA	6000VA	6000VA	7500VA	9000VA	10500VA	12000VA
Start Motor		0.3HP	0.5HP	0.5HP	0.5HP	0.5HP	1HP	1HP	1.5HP	2HP	2HP	3HP	3HP	3HP	3HP
Battery Voltage		12/24VDC	12/24/48VDC		24/48VDC	12VDC	12/24/48VDC	24VDC	24/48VDC	48VDC	24/96VDC	24/48VDC	24/48/96VDC	48/96VDC	48/96VDC
Built-in solar controller charging current (optional)		10A~30A(PWM)				10A~60A(PWM(12V/24V/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(1pc) / 400*280*400(2pcs)				460*200*270			460*240*380		490*300*400				530*310*550
N.W.(kg)		6.5	8	9	10	11	13	14	18	21	23	25	29	31	46
G.W.(kg)(Carton Packing)		7.5	9	10	11	12	14	15	19	22	24	26	30	32	48
Installation Method		Desktop				Tower									

Model: NB		50248/96/192	60248/96/192	70296/192	80396/192	10396/192	12396/192	153192	203220	253220	303240	403384
Rated Power		5000W	6000W	7000W	8KW	10KW	12KW	15KW	20KW	25KW	30KW	40KW
Peak Power(20ms)		15000VA	18000VA	21000VA	24KVA	30KVA	36KVA	45KVA	60KVA	75KVA	90KVA	120KVA
Start Motor		4HP	4HP	5HP	6HP	7HP	7HP	10HP	10HP	15HP	15HP	20HP
Battery Voltage		48/96/192VDC		96/192VDC	96/192VDC	96/192VDC	96/192VDC	192VDC	220VDC	220VDC	240VDC	384VDC
Built-in solar controller charging current (optional)		10A~60A(PWM 12V/24V/48V)		50A/100A(PWM)							50A/100A/150A/200A(PWM)	
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	64	66	70	108	113	119	135	160
G.W.(kg)(Wooden Packing)		58	59	72	74	77	80	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(110VAC)/83VAC~148VAC(120VAC)/145VAC~275VAC(220VAC)/155VAC~285VAC(230VAC)/165VAC~295VAC(240VAC)(700W~7000W) 92VAC~128VAC(110VAC)/102VAC~138VAC(120VAC)/185VAC~255VAC(220VAC)/195VAC~265VAC(230VAC)/205VAC~275VAC(240VAC)(8KW~40KW)										
	AC Input Frequency Range	45Hz~55Hz(50Hz) / 55Hz~65Hz(60Hz)										
	Max AC charging current	6A~15A (Depending on the model)										
	AC charging voltage	LEAD battery：Charge Voltage :14.2V; 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% / 120VAC±2% / 220VAC±2% / 230VAC±2% / 240VAC±2%										
	Output Frequency(Battery Mode)	50Hz±0.5 or 60Hz±0.5										
	Output Wave(Battery Mode)	Pure Sine Wave										
	Efficiency(AC Mode)	>99%										
	Output Voltage(AC Mode)	Follow input										
	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	Factory default: 11V（Single battery voltage）										
	Battery undervoltage protection	Factory default: 10.5V（Single battery voltage）										
	Battery overvoltage alarm	Factory default: 15V（Single battery voltage）										
	Battery overvoltage protection	Factory default: ： 17V（Single battery voltage）										
	Battery overvoltage recovery voltage	Factory default: 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	PWM										
	Charging current	12V/24V/48V System: 10A/20A/30A/40A/50A/60A; 96V/192V/240V/384 System: 50A/100A/150A/200A										
	PV Input Voltage Range	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)										
	Max PV Input Voltage(Voc) (At the lowest temperature)	50V(12V/24V System); 100V(48V System); 200V(96V System); 400V(192V System); 500V(240V System); 750V(384V System)										
	PV Array Maximum Power	12V System: 140W(10A)/280W(20A)/420W(30A)/560W(40A)/700W(50A)/840W(60A); 24V System: 280W(10A)/560W(20A)/840W(30A)/ 1120W(40A)/1400W(50A)/1680W(60A); 48V System: 560W(10A)/1120W(20A)/1680W(30A)/2240W(40A)/2800W(50A)/3360W(60A); 96V System: 5,6KW(50A)/11.2KW(100A) ; 192V System: 11.2KW(50A)/22.4KW(100A); 220V System: 12.8KW(50A)/25.6KW(100A); 240V System: 14KW(50A)/28KW(100A)/21KW*2(150A)/28KW*2(200A); 384V System: 22.4KW(50A)/44.8KW(100A)/33.6KW*2(150A)/44.8KW*2(200A)										
	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.