



**BACKUP
POWER
MADE
SIMPLE**

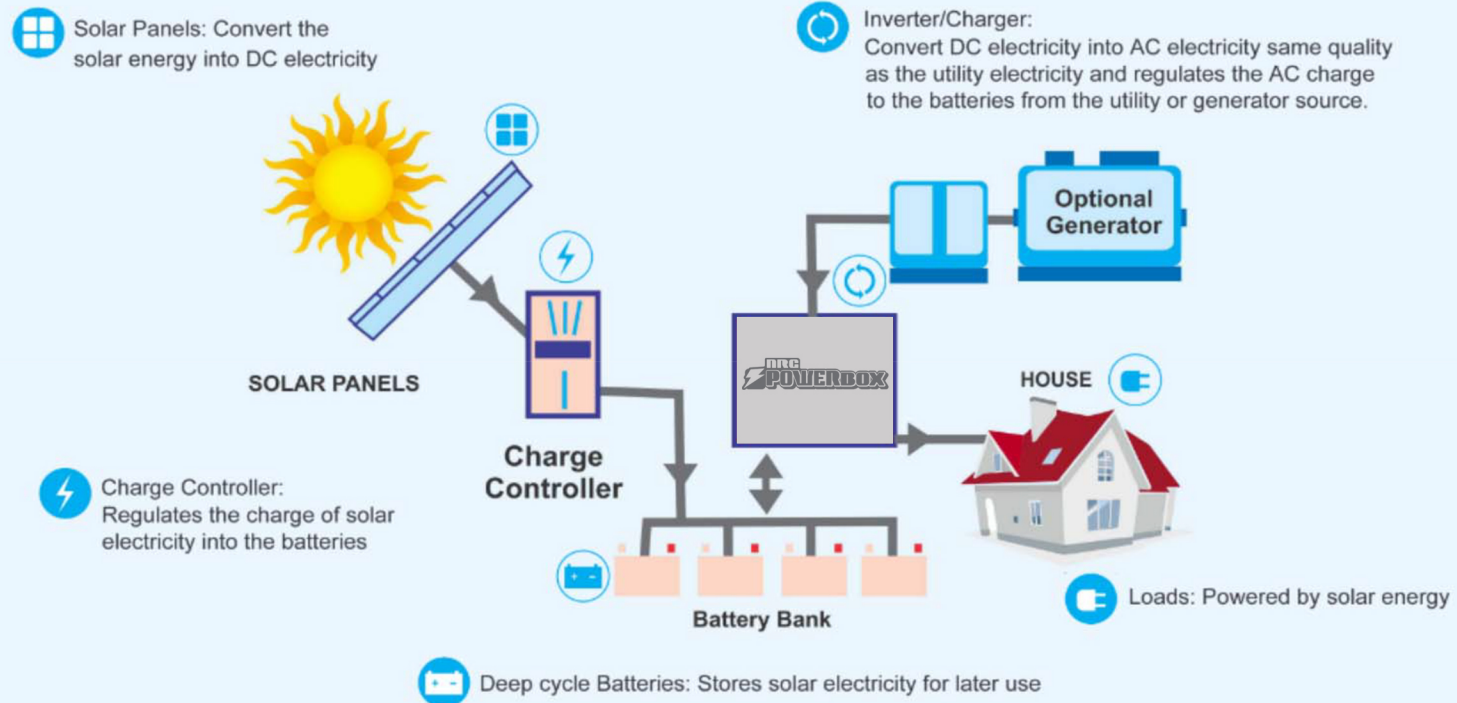




SOLAR SYSTEM CONNECTION

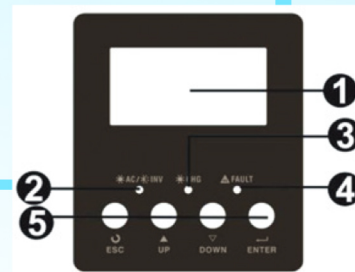
Stand alone power Backup Power. Just add NRG Powerbox.

NRG Powerbox integrates with solar to store excess energy generated during the day and makes it available when you need it,



On & Off grid connection with Powerbox's Superbattery


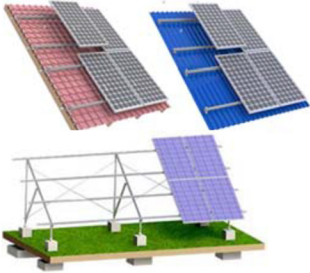




LCD DISPLAY INFORMATION



1. LCD Display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons



THE COMPLETE KIT

<div>System Design Basic Information</div>	<div><table><tr><td>1</td><td>Mounting Brackets</td><td>Rooftop/Ground</td><td>8pcs</td><td>1set</td></tr><tr><td>2</td><td>Solar panel/module</td><td>ClassA High efficiency</td><td>360W poly</td><td>8pcs</td></tr><tr><td>3</td><td>Combiner Box</td><td>Lightning protection</td><td>4 Input-1Output</td><td>1pc</td></tr><tr><td>4</td><td colspan="3">POWERBOX Superbattery Lithium LiFePo4 10kwh</td><td></td></tr><tr><td>4</td><td colspan="3">Include Hybrid Pure sine wave Soar inverter 5000VA/10000VA and Solar Controller MPPT 51.2V 80A , AC Charger 60A</td><td>1pc</td></tr><tr><td>5</td><td>Cables/wires</td><td>Flame retardant</td><td>4mm2</td><td>50m</td></tr><tr><td>6</td><td>Connectors</td><td>IP68</td><td>MC4</td><td>8pcs</td></tr></table></div>	1	Mounting Brackets	Rooftop/Ground	8pcs	1set	2	Solar panel/module	ClassA High efficiency	360W poly	8pcs	3	Combiner Box	Lightning protection	4 Input-1Output	1pc	4	POWERBOX Superbattery Lithium LiFePo4 10kwh				4	Include Hybrid Pure sine wave Soar inverter 5000VA/10000VA and Solar Controller MPPT 51.2V 80A , AC Charger 60A			1pc	5	Cables/wires	Flame retardant	4mm2	50m	6	Connectors	IP68	MC4	8pcs	<div></div>
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<div><div>Mounting Kits</div><div></div></div>	<div><div>Description: Whole set includes: Mounting Brackets designed for Pitch Rooftop (Tile or steel Roof) Flat Rooftop/Ground Mounting Wind Load: 60m/s or 250km/hour Snow Load: 50kg/m2 Structure: Anodized Aluminum for sloping roof and Hot galvanizing Steel for Flat roof Installation Angle: same as roof type for slope 10°→60° for flat roof or on ground</div></div>	<div><div>Warranty:</div><div><div><div>1. Solar Panels, 30yrs</div><div>2. Mounting Kit, 30yrs</div><div>3. Superbattery, 5 yrs</div><div>4. Combiner box, 5 yrs</div><div>5. All other parts, 5yrs</div></div></div></div>	<div></div>																																		
<div><div>Solar Panel</div><div><div><div>72P Cell 360 Watt</div></div></div></div>	<div><div>Solar panel 360W Class A Maximum power(Pmax): 360 W Material: Poly-crystalline silicone cells Open circuit voltage (Voc): 48.0 V Short-circuit current (Isc): 9.51A Maximum voltage (Vmp): 38.5V Maximum current (Imp): 9.12A Size of Module (mm): 1956*992*40 mm Weight Per piece (KG): 22.5 Kg Module Certificates: CE,TUV,UL,ISO,CSA,SAA...</div></div>	<div><div>Notes:</div><div><div><div>1. Pictures for reference only</div><div>2. Power output data is based on areas with daily average peak power sunshine</div></div></div></div>																																			
<div><div>PV Combiner Box</div><div></div></div>	<div><div>Model: ABTC40NA-4T Multiple PV strings inputs; Simplify wiring between PV array and controller, protection to controller, Lightning protection Features Wide range of DC input voltage; Reliable thunderstorm& surge protection.</div></div>																																				





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<p>NRC POWERBOX Superbattery LiFePo4 Lithium battery include Hybrid Mppt Solar inverter</p>  	<p>Energy capacity:10kWh Max Charge / Discharging Current: $\leq 100A$ Depth of Charge / Discharging: 100% Supported Applications: Solar self-consumption,Back-up power, grid line Time-Based control,Off-grid capabilities Service life: More than 10 years Operating Temperature:-20°C to 60°C Installation: Floor or wall mounted</p> <p>Inverter Mode: Rated Power 5000VA 4000W Hybrid inverter with MPPT controller built in Output waveform: Pure sine wave DC Input: 51.2VDC, 100A AC Output: 230VAC, 50/60Hz, 22A,1ϕ AC Input: 230VAC, 50/60Hz, 22A,1ϕ Max: 60A, Default 30A Solar Controller Rated Current: 80A Solar input Voltage (VOC): 60-145VDC Protection: high/low-voltage input, output, high/low-voltage, over temperature, short circuit protection function, etc. It can be expanded in parallel at AC port</p>	<p>Total weight :500kg Total CBM :3m3</p>
<p>PV Cables</p> 	<p>Description: 4mm2 cables (one red / one black); TUV and UL standard, with specification suitable for solar system; 100m/roll</p>	
<p>MC4 connetors</p> 	<p>Description: Rated current: 30A Waterproof grade: IP68 Rate voltage: DC 1000V(TUV)600V(UL) Pin dimensions: 4mm Flame retardant grade: TUV, UL94-V0</p>	



HB SERIES

This is a multi-functioning inverter/charger, combining function of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user configurable and easy accessible button operation such as battery charging current, AC/Solar charger priority and acceptable input voltage based on different applications

FEATURES

1. Pure sine wave inverter with LiFeP04 Lithium battery
2. Built-in MPPT solar charge controller
3. Selectable input voltage range for home appliances and personal computers
4. Selectable charging current based on applications
5. Configurable AC/Solar input priority via LCD setting
6. Compatible to main's voltage or generator power
7. Auto restart while AC is recovering
8. Overload and short circuit protection
9. Smart battery charger design for optimized battery performance
10. Cold start function
11. Parallel operation with up to 9 units

TECHNICAL SPECIFICATIONS

Model No.		
Rated power		5000VA/4000W
Input	voltage	230VAC
	selectable voltage range	170–280VAC (for personal computers) 90–280VAC (for home appliances)
	Frequency range	50Hz/60Hz (auto sensing)
Output	AC voltage regulation (Batt.mode)	230VAC \pm 5%
	Surge power (5 seconds)	10000VA
	efficiency (peak)	93%
	transfer time	10ms(for personal computers); 20ms (for home appliances)
	waveform	pure sine wave
Battery& AC charger	battery capacity	51.2V10240Wh
	floating charge voltage	54VDC
	overcharge protection	62VDC
	maximum charge current	60A
	MAX PV array power	5000W
	MPPT range@ operating voltage	60–115V
	maximum PV array open circuit voltage	145VDC
	MPPT charging current	80A
	maximum efficiency	98%
Physical	standby power consumption	2W
	Dimension, D*W*H(mm)	1020*600*180
operating Environment	Net weight (kgs)	89KG
	humidity	5%–95% relative humidity (non–condensing)
	operating temperature	0°C –55°C
	storage temperature	–15°C –60°C