

BNG 300W - 800W

PTPL

High Frequency Solar Inverter Charger System



- Intelligent inbuilt solar charge controller and battery management system
- Advanced microprocessor control with user friendly operation interface
- Real short circuit protection with absolute long time use
- Dual USB output with max. 1.2A charging current, support mobile phone charging
- Min. 90% high efficiency with strong loading capability
- Unique SMT + modular design with better system reliability
- Full protections, such as input low voltage, overload, over current, high voltage, short circuit, and TVS thunder protections, etc

BNG Specifications

MODEL	BNG 300W	BNG 500W	BNG 800W
Power rating	300W	500W	800W
Battery voltage	12Vdc		
PV INPUT			
Input max. voltage	21V		
Max. input power	360Wp		
Max. charge current	30A		
Max. transfer efficiency	90 - 96% (DC to AC transfer efficiency)		
AC INPUT			
Input voltage range	165-275Vac		
Input frequency range	50/60Hz		
Charge current	20/30A		
BATTERY			
Over charge protective voltage	14.2Vdc		
Over charge recovery voltage	13.8Vdc		
Constant charge voltage	13.5Vdc		
Over discharge alarm voltage	10.2Vdc		
Battery charge mode	PWM, 8A direct charge, turns into float charge when battery capacity reaches 90%		
AC OUTPUT			
Output voltage range	100/110/120/220Vac ±3%		
Output frequency	50/60Hz ±0.5Hz		
No load current	<8W		
Total harmonic current distortion (THD)	< 3% for linear load, < 5% for nonlinear load, all of them in full load condition		
Dynamic response time	5ms typical value, max. 8ms		
SYSTEM FEATURES			
Type of cooling	Temperature control forced ventilation		
Start speed of cooling fan	65 °C		
Voltage drop between solar module and battery	≤0.15V		
Alarm	Sounding every 25 seconds at battery low voltage		
ENVIRONMENTAL			
Operating temperature	-10°C to +60°C		
Storage temperature	-30°C to +70°C		
Humidity	0-95% (non-condensing)		
Altitude	2000m (Every 100m increase de-rates 1%)		
Noise level	< 10dBA		
PHYSICAL			
Dimensions (HxWxD) (mm)	255x65x200		
Weight (kg)	0.8		

Specifications subject to change without further notice. Please always check PTPL label for specifications of a particular unit.