



- ★ Advanced digital control techniques using the latest DSP
- ★ Optimized anti-islanding technique for the highest system reliability.
- ★ Optimized Maximum Power Point Tracking technique guarantees the maximum power output from the PV array
- ★ User oriented Graphic User Interface (GUI) on an integrated.
- ★ 128\*64 graphic VFD and a keypad panel..
- ★ Support multiple communication protocols, including RS485, RS232, Ethernet/Zigbee etc.
- ★ Complete protection functions to protect against reverse DC polarity, over temperature, over current, short circuit, over/under voltage, anti-islanding, etc.
- ★ Can be used at a wide range of environment temperatures and high altitude.
- ★ Automatically power-on in the morning and enter a low power mode at night. No local operators required for daily operation

## Specification of BDE-500N

### (Draft, North American Standard)

MODEL		BDE-500N
INPUT (DC)	Max Recommended PV Power (kWp)	550
	Max DC Open Circuit Voltage (V)	660
	Max DC Input Current (A)	1650
	MPPT Tracking Accuracy	>99%
	MPPT Tracking Range (V)	300 - 600
OUTPUT (AC)	Rated AC Output Power (kW)	500
	Nominal Power Grid Voltage (V)	205
	Allowable Power Grid Voltage (V)	175--226
	Allowable Power Grid Frequency (Hz)	59.4--60.6
	THD	<3% (at rated power)
	Power Factor	0.95 (leading) -- 0.95(lagging)
SYSTEM EFFICIENCY	Peak Efficiency	98.2% (transformerless)
	European Weighted Efficiency	97.4% (transformerless)
	Night Time Tire Loss (W)	<10
PROTECTION FUNCTIONS	Surge Protection	C (class II)
	Over/Under Voltage Protection	Yes
	Over/Under Frequency Protection	Yes
	Anti-Islanding Protection	Yes
	Over Current Protection	Yes
	Reverse DC Polarity Protection	Yes
	Overload Protection	Yes
	Protection Degree	IP20
OTHER PARAMETERS	Environment Temperature	-35°C -- +45°C
	Environment Humidity	0-95% non-condensation
	Display	128*64 graphic VFD and keypad
	Communications	RS485, RS232, Ethernet, Zigbee
	Dimension (D-W-H mm)	600*2400*2200
	Weight (kg)	1400