



★ 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 RS232/RS485/Ethernet/Zigbee etc.



★ Complete protection functions to protect against reverse DC polarity, over temperature, over current, short circuit, over/under voltage, anti-islanding, etc.

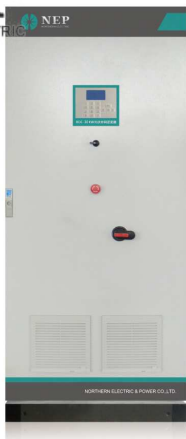
★ Can be used at a wide range of environment temperatures and high altitude.

★ Automatically power-on in the morning and enter a low power mode at night. No local operators required for daily operation

Specification of BDE-30N

(Draft, North American Standard)

MODEL		BDE-30N
INPUT (DC)	Max Recommended PV Power (kWp)	33.5
	Max DC Open Circuit Voltage (V)	660
	Max DC Input Current (A)	100
	MPPT Tracking Accuracy	>99%
	MPPT Tracking Range (V)	300 - 600
OUTPUT (AC)	Rated AC Output Power (kW)	30
	Nominal Power Grid Voltage (V)	480
	Allowable Power Grid Voltage (V)	408--528
	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	95.3%
	European Weighted Efficiency	94.0%
	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*800*2000
	Weight (kg)	500


NEP
 NORTHERN ELECTRIC

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Specification of BDE-50N


NEP
 NORTHERN ELECTRIC

(Draft, North American Standard)

MODEL		NEP NORTHERN ELECTRIC	BDE-50N
INPUT (DC)	Max Recommended PV Power (kWp)		56
	Max DC Open Circuit Voltage (V)		660
	Max DC Input Current (A)		170
	MPPT Tracking Accuracy		>99%
	MPPT Tracking Range (V)		300 - 600
OUTPUT (AC)	Rated AC Output Power (kW)		50
	Nominal Power Grid Voltage (V)		480
	Allowable Power Grid Voltage (V)		408--528
	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		96.4%
	European Weighted Efficiency		95.3%
	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*800*2000
	Weight (kg)		650