


VDE0126-1-1


- ★ 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-310K

	MODEL	BDE-310K
INPUT (DC)	Max Recommended PV Power (kWp)	340
	Max DC Open Circuit Voltage (V)	900
	Max DC Input Current (A)	760
	MPPT Tracking Accuracy	>99%
	MPPT Tracking Range (V)	450 - 820
OUTPUT (AC)	Rated AC Output Power (kW)	310
	Nominal Power Grid Voltage (V)	380/270
	Allowable Power Grid Voltage (V)	310-450/210-310
	Allowable Power Grid Frequency (Hz)	45.5—52.5
	THD	<3% (at rated power)
	Power Factor	0.95(leading) -- 0.95(lagging)
SYSTEM EFFICIENCY	Peak Efficiency	97.7% (formerless)/ 98.6% (formerless)
	European Weighted Efficiency	98.6% (transformerless)/ 98.4% (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 -- +50°C
	Environment Humidity	0-95% non-condensation
	Display	128*64 graphic VFD and keypad
	Communications	RS485, RS232, Ethernet, Zigbee
	Dimension (D-W-H mm)	800*1800*2200
	Weight (kg)	1500/1060