



## BG2000 (Single-MPPT, Single-Phase)

BORGS photovoltaic power conditioning unit is suitable for home rooftop photovoltaic system, designed under modern industrial concept. There are three colors for option with fashionable appearance. This model uses state-of-the-art control technology, which has an extremely powerful input voltage and input current capability. The THDi can be controlled within 1%, when the maximum output power of PV system ranges from 1800W. It holds a safe lead among similar products.

### Excellent Performance

- Maximum Efficiency up to 97.0%
- European Efficiency up to 96.0%
- MPPT Efficiency over 99.5%
- THDi less than 1%

### High Safety and Reliability

- Up to 10 safety measurements
- DC switch disconnecter
- IP65 anti-dust and water-proof
- 45°C full-load output
- Wide range of MPPT voltage

### Customer-oriented Design

- User-friendly Large LCD
- Wireless monitoring and communication
- Fanless low-noise design
- 3 selectable appearance colors

## Technical Data

### DC Input Data

Max. PV-generator power [W]	2300
Max. DC voltage [V]	500
MPPT voltage range [V]	125~450
Turn on DC voltage [V]	125
Max. DC work current [A]	15
Number of inputs/MPP trackers	2/1
DC connector	MC IV Connector (optional)
Standby power consumption [W]	5

### AC Output Data

Nominal AC power [W]	2000
Max. AC power [W]	2000
Max. AC current [A]	10
Nominal output voltage range	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G83/1, AS4777.2/3
AC grid frequency	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G83/1, AS4777.2/3
THDi	<1%
Power factor	~1 (Nominal power)
AC connector	Single phase

### Efficiency

Max. efficiency	97.0%
European efficiency	>96.0%
MPPT adaptation efficiency	>99.5%

### Safety Equipment

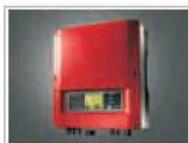
Leakage current monitoring unit	Integrated
DC switch	Optional
Islanding protection	AFD
Grid monitoring	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, CEI 0-21, G83/1, AS4777.2/3

### Normative Reference

EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Safety compliance	According to IEC 62109-1, AS3100

### General Data

Dimensions (W*H*D) [mm]	330*350*125
Net weight [kg]	12
Housing	For outdoor and indoor
Mounting information	Wall mounting
Operating temperature range	-20~60°C (up 45°C derating)
Relative humidity	0~95%
Site altitude [m]	2000
IP protection class	IP65
Topology	Transformerless
Cooling concept	Natural convection
Noise level [dB]	<25
Display	4" LCD
Communication	USB2.0; RS485
Standard warranty [years]	5/10/15/20/25 (optional)



color options