

# BRE-I-5K Technical Specifications

## DC Input

Model	BRE-I-5K
Max.DC Input Power	6500W
Max.DC Input Voltage	580V
MPPT Voltage Range	100-550V
MPPT Range for Full Load	210-500V
Start-up Voltage	75V/110V
Max.Input Current	12A/12A
Max.Short Current	15A/15A
Number of MPPT	2
Max.inverter backfeed current	0
Number of DC Connection Sets per MPPT:	1

## AC output

Model	BRE-I-5K
<b>AC Output Data (On-grid)</b>	
Nominal Power Output	5000W
Max.Apparent Power Output	5000VA
Rated AC Current Output	21.7A
Max. output fault current	43.4A
Max. output overcurrent protection	27.1A
Nominal Output Voltage/Range	230V/180-270V
Nominal Output Frequency/Range	50HZ/60HZ
Output Power Factor	0.8leading ~0.8lagging
Output THDi (@Nominal Output)	<3%

<b>AC Output Data (Off-Grid)</b>	
Max. Output Apparent Power	3000VA
Nominal Output Voltage	230V
Nominal Output Frequency	50/60HZ
Max. Output Current	10A
Output THDi (@Linear Load)	<3%
Automatic Switch Time	<5 S
Peak Output Apparent Power	3500W

## Internal Charger

Nominal Battery Voltage	48V
Battery types	Lithium
Battery Voltage Range	40-60V
Max. Charging Current	50A(adjustable)
Max. Discharging Current	50A(adjustable)
Discharge depth (%)	90%(adjustable)
Communication Port	Can
Charging curve	3-stage adaptive with maintenance
Battery temperature sensor	Yes
Min Operating Voltage (V)	36V

## Efficiency

<b>Model</b>	<b>BRE-I-5K</b>
Max. Efficiency	97.60%
MPPT Efficiency	99.90%

## General Data

<b>Model</b>	<b>BRE-I-5K</b>
Size (Width*Height*Depth)	620*700*210mm

Weight	135kg
Mounting	Wall Hangings
Operating Temperature Range	-25 °C ~ 60 °C
Operation Altitude	2000m
Protection Degree	IP54
Cooling	Natural Convection
Noise (dB)	<35dB(A)
User Interface	LED
Communication Port	Ethernet(standard); RS485/4G(Optional)
Inverter Topology	Non-isolated
Active anti-islanding method	Yes
Protective Class	I
Overvoltage category	III(Main), II(PV)
Place of origin	China
Warranty	5 years