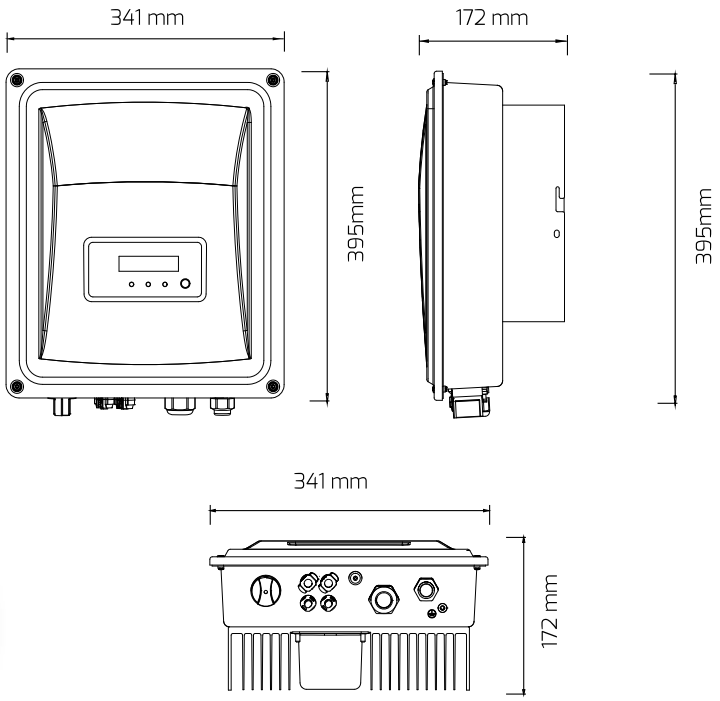
Bradford Solar Inverter
Single Phase String - 3.68kW - 5kW

Bradford™ solar

Simple, Reliable, Affordable Solar

The Bradford Solar Inverter combines all aspects of our beliefs into simple, reliable and affordable PV inverters. By introducing a patented inverter topology we used less power electronic components for further increased reliability.

- ✓ A Dual MPPT for flexible installation
- ✓ Lightweight less than 11 kg
- ✓ Compact design with IP65 casing for outdoor use
- ✓ Sunclix connectors for toolless DC wiring
- ✓ Quiet with only 25dB noise
- ✓ High operating altitude of up to 4000m
- ✓ Optional Ethernet and Wi-Fi communication
- ✓ Support of remote firmware update



ERS ENERGY RATING SYSTEMS
8370 9555
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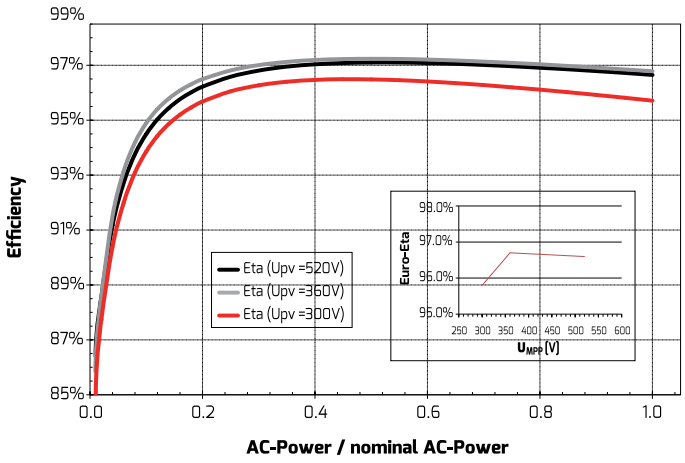
Technical Specifications

Conversion Efficiency



Ouput (DC)	3.68kW	4kW	5kW
Rated active power	3680W	4000W	5000W
Max. apparent AC power	3680VA	4400VA	5000VA
Nominal AC voltage / range		220V, 230V 240V / 180-280V	
AC power frequency / range		50, 60 / +-5Hz	
Rated power frequency / rated grid voltage		50Hz / 230V	
Max. output current		16A	
Power factor (@rated power)		1	
Adjustable displacement power factor		0.8 inductive ... 0.8 capacitive	
Feed-in phases / connection phases		1 / 1	
Harmonic distortion (THD) at rated output		< 3%	

Input (DC)	3.68kW	4kW	5kW
DC convertible power	3900W	4650W	5300W
Max. input voltage		600v	
MPP voltage range / rated input voltage		100-520V / 360V	
Min. start voltage		80V	
Min. feed-in power		30W	
Max. input current per MPPT		11A / 11A	
Number of MPPTs		2	
Number of independent MPP inputs		1/1	

Efficiency

Max. efficiency / European weighted efficiency	97.2% / 96.5%
MPPT efficiency	99.5%
Short Circuit Current (Isc)	7.55 A

Protective Devices

DC isolator	o
PV iso / Grid monitoring	• / •
DC reverse polarity protection AC short-circuit current capability	• / •
GFCI function	•
Protection class (according to IEC 62103) Overvoltage category (according to IEC 60664-1)	I / II(DC), III(AC)
Short Circuit Current (Isc)	7.55 A

General Data

Interfaces: RS485 / RS4851 & Ethernet WIFI & a.RJ452(DRED)	• / •
Earth Fault Alarm3	cloud based, audible and visible
Display	16 x 2 characters
Dimensions (W x H x D)	341 x 395 x 172mm
Weight	11kg
Cooling concept	convection
Noise emission (typical)	< 25 dB(A)@1m
Installation	indoor & outdoor
Mounting information	wall mounting bracket
DC connection technology	SUNCLIX
AC connection technology	screw clamp terminal
Operating temperature range	-25º ... +60º -13º ... +140º
Relative humidity (non-condensing)	0% ... 100%
Max. operating altitude	4000m (> 3000m derating)
Degree of protection (according to IEC 60529)	IP65
Climatic category (according to IEC 60721-3-4)	4K4H
Topology	transformerless
Self-consumption (night)	<1W
Standby power	8.5W

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