

# BB/ECO

| BBE-20-PL2 | BBE-25-PL2 | BBE-30-PL2 | BBE-33-PL2



MAX. EFFICIENCY UP TO 98,3%



EASY AND QUICK MONTAGE



MAXIMUM INPUT VOLTAGE DC 1000 V



TECHNICAL SUPPORT AND SERVICE IN POLAND



LARGE VOLTAGE RANGE AC SIDE



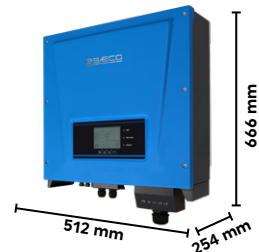
CERTIFICATE EN 50549, IEC/EN 62109 AND IEC/EN6100



COMMUNICATION RS485, WiFi, (LAN, 4G-optional)



10 YEARS WARRANTY IN STANDARD



### INPUT PARAMETERS DC (PV)

	BBE-20-PL2	BBE-25-PL2	BBE-30-PL2	BBE-33-PL2
Max. no-load voltage (UOC max )	1100 V			
Start voltage	250V (+/-1V)			
Number of MPP tracker	2			
Connection per tracker	2 for each MPPT	3 for each MPPT		
Max. input power per tracker	13 000 W (540V - 850V)	16 000 W (570V - 850V)	18 000 W (600V - 800V)	18 000 W (600V - 800V)
Operating range	230V - 960V			
Max. input current per MPPT	24A / 24A	28A / 28A	30A / 30A	30A / 30A
Max. short-circuit current (ISC max ) [A]	30A / 30A	35A / 35A	37,5A / 37,5A	37,5A / 37,5A
MPP range	460V - 850V	480V - 850V	520V - 850V	580V - 850V

### OUTPUT PARAMETERS (ON GRID)

	BBE-20-PL2	BBE-25-PL2	BBE-30-PL2	BBE-33-PL2
Rated output power	20 000 W	25 000 W	30 000 W	33 000 W
Max. AC power	22 000 VA	27 500 VA	33 000 VA	35 300 VA
Normal grid voltage	3/N/PE 230V/400V			
Zakres napięcia sieci	310 - 480Vac (adjustable)			
Grid voltage range	50-60 Hz (according to local standard)			
Grid Frequency range	0-100%			
THDI	<3%			
Power factor	1 (adjustable +/-0,8)			
Max. output current	32 A	40 A	48 A	53 A

### EFFICIENCY, SAFETY AND PROTECTION

	BBE-20-PL2	BBE-25-PL2	BBE-30-PL2	BBE-33-PL2
Max. efficiency	98,2%	98,4%	98,4%	98,6%
European weighted efficiency (EU/CEC)	98,0%	98,2%	98,2%	98,2%
Standby consumption	<1 W			
Start power	45 W			
MPPT efficiency	>99,9%			
DC switch	Yes			
Grid connection standard	EN 50549, IEC/EN 61000, IEC/EN 62109			
Interfaces communication	RS485, Wi-Fi (LAN i 4G - optional)			
Anti islanding safety protection	Yes			
RCMU safety protection	Yes			
Ground fault monitoring	Yes			
DC reverse polarity protection	Yes ( in terms of rated currents and voltages)	Yes ( in terms of rated currents and voltages +protection diode)		
Measurement of insulation resistance on the AC and DC side	Yes			
Grounding resistance measurement	Yes			
DC surge protection	Type III			
AC surge protection	Type III			

### GENERAL DATA

	BBE-20-PL2	BBE-25-PL2	BBE-30-PL2	BBE-33-PL2
Operating temperature range	From -25°C to +60°C			
Relative operating humidity	0-100% without condensation			
Circuitry topology	Transformerless			
Protection class	IP65			
Max. operating altitude	<2000 m			
Noise	<30 dB	<45 dB		
Weight	34 kg	37 kg	38 kg	
Cooling	Natural	Fan		
Dimension	666 x 512 x 254 mm			
Warranty	10 years			

