

# TECHNICAL DATA

## lead

Item number	PBRO1-2000-6	PBRO1-2000-8	PBRO1-3500-6	PBRO1-3500-8	PBRO3-2250-6	PBRO3-2250-8	PBRO3-6000-18	PBRO3-6000-24	PBRO3-10500-18	PBRO3-10500-24	PBRO3-21000-48	PBRO3-31500-72	PBRO3-42000-96
System	Single phase AC coupled				Three phase AC coupled		Three phase AC coupled				Three phase AC coupled		
Power	2000 W		3500 W		3 * 750 W		3 * 2000 W		3 * 3500 W		3 * 7000 W	3 * 10500 W	3 * 14000 W
storage capacity )***	10 kWh	13.33 kWh	10 kWh	13.33 kWh	10 kWh	13.33 kWh	30 kWh	39.99 kWh	30 kWh	39.99 kWh	79.98 kWh	119.97 kWh	159.96 kWh
Nominal voltage of battery	48 V (dc)				48 V (dc)		48 V (dc)				48 V (dc)		
Input voltage range of the battery)*	38 - 68 V (dc)				38 - 68 V (dc)		38 - 68 V (dc)				38 - 68 V (dc)		
Max. power at 25°C	2000 VA		3500 VA		3 * 750 VA		3 * 2000 VA		3 * 3500 VA		2 * 3 * 3500 VA	3 * 3 * 3500 VA	4 * 3 * 3500 VA
Max. power at 25°C, 30 min)**	2600 VA		4000 VA		3 * 1200 VA		3 * 2600 VA		3 * 4000 VA		2 * 3 * 4000 VA	3 * 3 * 4000 VA	4 * 3 * 4000 VA
Max. power at 25°C, 3s)**	6500 VA		10500 VA		3 * 2800 VA		3 * 6500 VA		3 * 10500 VA		2 * 3 * 10500 VA	3 * 3 * 10500 VA	4 * 3 * 10500 VA
Maximum load	until short circuit				until short circuit		until short circuit				until short circuit		
Asymmetric load max.	until continuous power				until continuous power		until continuous power				until continuous power		
Cos φ	0,1 - 1				0,1 - 1		0,1 - 1				0,1 - 1		
Efficiency electronics max.	96%				93%		96%				96%		
Own consumption Stand-By	12,5 W		17,5 W		26,5 W		37,5 W		52,5 W		105 W	157,5 W	210 W
Output voltage	real sinus 230 V (ac) (+/- 2 %)				real sinus 230 V (ac) (+/- 2 %)		real sinus 230 V (ac) (+/- 2 %)				real sinus 230 V (ac) (+/- 2 %)		
Output frequency	50 Hz +/- 0,05%				50 Hz +/- 0,05%		50 Hz +/- 0,05%				50 Hz +/- 0,05%		
Distortion factor	< 2%				< 2%		< 2%				< 2%		
Overload and short circuit protection	automatic stop				automatic stop		automatic stop				automatic stop		
Overtemperature protection	acoustic warning before stop				acoustic warning before stop		acoustic warning before stop				acoustic warning before stop		
<b>Battery charger</b>													
Charging characteristics)*	6 steps				6 steps		6 steps				6 steps		
Max. charge power	1440 W		2400 W		1728 W		4320 W		7200 W		14400 W	21600 W	28800 W
Temperature compensation	yes				yes		yes				yes		
Power factor correction (PFC)	EN 61000-3-2				EN 61000-3-2		EN 61000-3-2				EN 61000-3-2		
<b>Battery</b>													
Self discharging battery cell	< 3 % per month				< 3 % per month		< 3 % per month				< 3 % per month		
Technology	lead gel				lead gel		lead gel				lead gel		
<b>General data</b>													
Input voltage range	150 to 265 V (ac)				150 to 265 V (ac)		150 to 265 V (ac)				150 to 265 V (ac)		
Input current max. / system	50 A (ac)				16 A (ac)		3 * 50 A (ac)				2 * 3 * 50 A (ac)	3 * 3 * 50 A (ac)	4 * 3 * 50 A (ac)
Output current max. / system	56 A (ac)				20 A (ac)		3 * 56 A (ac)				2 * 3 * 56 A (ac)	3 * 3 * 56 A (ac)	4 * 3 * 56 A (ac)
Transfer time (UPS)	< 15 ms				< 15 ms		< 15 ms				< 15 ms		
Wight / system	320 kg				320 kg		960 kg				1920 kg	2880 kg	3840 kg
Number of individual components / unit	5				5		5				5		
max. Wight / individual components	70 kg				70 kg		70 kg				70 kg		
Dimension HxBxL [mm] / unit	900 x 590 x 595				900 x 590 x 595		900 x 590 x 595				900 x 590 x 595		
Number of units	1				1		3				6	9	12
Protection type	IP30												
CE conformity	CEM 2004/108/CE : EN61000-6-1; EN61000-6-3; EN55014; EN5522; EN61000-3-2;												
Operating temperature	-20 bis 55°C, Recommended room temperature												
Noise level	< 45 dB												

The regulations of the respective countries / network operators need to be considered!

As of 15.05.2018  
Subject to change

)\* in dependence of the control unit  
)\*\* by emergency / off-grid operation  
)\*\*\* 60% usable