

SINGLE PHASE LOW VOLTAGE ENERGY STORAGE INVERTERS

BS-INV-1P-(03-06)K-EU



PRODUCT HIGHLIGHTS

- Multi channel MPPT design, used for roofs with different orientations
- Max.125A/6kW charge/discharge capacity
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports parallel connection of single-phase and three-phase networks on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

MODELS	BS-INV-1P-03K-EU	BS-INV-1P-3.6K-EU	BS-INV-1P-4.6K-EU	BS-INV-1P-05K-EU	BS-INV-1P-06K-EU
INPUT DC (PV SIDE)					
Recommended max. PV power	4.8 kW	5.7 kW	7 kW	8 kW	9.6 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	90 V				
MPPT voltage range	90-520 V				
Max. input current	16 A / 16 A				
Max. short circuit current	24 A / 24 A				
MPPT number/Max. input strings number	2/2				
BATTERY					
Battery type	Li-ion				
Battery voltage range	42-58 V				
Max. charge / discharge power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. charge / discharge current	62.5 A	75 A	100 A	105 A	125 A
Communication	CAN				
OUTPUT AC (GRID SIDE)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3 kVA	3.6 k A	4.6 kVA	5 kVA	6 kVA
Rated grid voltage	1/N/PE, 220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	13.6 A / 13 A	16.4 A / 15.7 A	20.9 A / 20 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Max. output current	13.6 A / 13 A	16.4 A / 15.7 A	20.9 A / 20 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				
INPUT AC (GRID SIDE)					
Input voltage range	187-253 V				
Max. input current	20 A	24.6 A	31.4 A	32 A	40 A
Rated input frequency	45-55 Hz / 55-65 Hz				
OUTPUT AC (BACK-UP)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	4.2 kVA, 60 sec	5 kVA, 60 sec	6.4 kVA, 60 sec	7 kVA, 60 sec	8 kVA, 60 sec
Back-up switch time	<10 ms				
Rated output voltage	1/N/PE, 220 V / 230 V				
Rated frequency	50 Hz / 60 Hz				
Max. output current	19.1 A	22.7 A	29.1 A	31.8 A	36.4 A
THDv (@linear load)	<2%				
EFFICIENCY					
Max. efficiency	97.0%		97.5%		
EU efficiency	96.2%				
BAT charged by PV Max. efficiency			94.9%		
BAT charged/discharged to AC Max. efficiency	94.33%/93.51%				
GENERAL DATA					
Dimensions (W*H*D)	405*480*205 mm				
Weight	20.3 kg		22.4 kg		
Topology	High Frequency Isolation (Battery)				
Noise (typical)	<35 dB(A)				
Operating ambient temperature range	-25 ~ +60° C				
Ingress protection	IP66				
Cooling concept	Natural convection				
Max. operation altitude	4000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
FEATURES					
PV connection	MC4 connector				
AC connection	Quick connection plug				
Display	LED + APP				
Communication	CAN, RS485, Optional: Wi-Fi, GPRS, LAN				

*Specification indexes may be subject to changes without prior notice.