



Higher Input

Industry-leading input capacity "Up to 18A".



Low Voltage startup

40V Startup



Easy to install

Light Weight and Compact size



Compatibility

Wide MPPT & AC voltage range



Highest Quality

Efficient heat dissipation



Communication

Wifi, GPRS, Bluetooth, Rs485

1 - 4 KW Mini Single Phase

DATASHEET

	PVBSM1K-MI	PVBSM2K-MI	PVBSM3K-MI	PVBSM3.3K-MI	PVBSM3.6K-MI	PVBSM4K-MI
	1 KW	2 KW	3 KW	3.3 KW	3.6 KW	4 KW
DC Input						
Recommended max. PV power (KW)	1.5 KW	3 KW	4.5 KW	4.95 KW	5.4 KW	6 KW
Max. input voltage (V)	600 V					
Start-up voltage/Min. input DC operation voltage (V)	40 V/30 V					
MPPT voltage range (V)	80 V~580 V					
Max. input current/Max MPPT input current (A)	18 A					
Max. short circuit current/Max MPPT short circuit current (A)	22 A					
MPPT number	1					
String number per MPPT	1					
AC Output						
Rated output power (KW)	1 KW	2 KW	3 KW	3.3 KW	3.6 KW	4 KW
Rated/Max. apparent output power(KVA)	1 KVA/1 KVA	2 KVA/2 KVA	3 KVA/3 KVA	3.3 KVA/3.3 KVA	3.6 KVA/3.6 KVA	4 KVA/4 KVA
Max. active power (KW)	1 KW	2 KW	3 KW	3.3 KW	3.6 KW	4 KW
Rated grid output current (A)	4.3 A	8.7 A	13 A	14.3 A	15.7 A	17.4 A
Max. output current (A)	4.3 A	8.7 A	13 A	14.3 A	15.7 A	17.4 A
Rated grid voltage (L/N/PE) (V)	230 V					
Rated grid frequency (Hz)	50 Hz					
Power Factor	>0.99, 0.8 leading ~ 0.8 lagging					
THDi	<3%					
Efficiency						
Max. efficiency	98.60%					
EU efficiency	98.10%					
Protection						
Ground fault monitoring	Yes					
Output over voltage protection	Yes					
Anti-islanding protection	Yes					
Integrated AFCI	Optional					
DC reverse-polarity protection	Yes					
Overvoltage category	AC Class III/PV Class II					
General Data						
Dimension (W*H*D) (mm)	320*220*122.5 mm			320*220*152.5 mm		
Shell material	Aluminium alloy					
Weight (Kg)	6.1 Kg			6.5 Kg		
Operating ambient temperature range (°C)	-25~60 °C					
Noise emission (dB(A))	≤20 dB(A)					
Topology	Transformerless					
Ingress protection	IP66					
Cooling concept	Natural Convection					
Max. operation altitude(m)	3000 m					
Grid connection standard	IEC 61727/ IS 16169:2014, AS/NZS 4777.2:2020					
Safety/EMC standard	IEC-62109-1/-2, IEC-61000-6-1/-2/-3/-4					
Display	LCD					
DC connection	MC4/D4					
Communications	WiFi(2.4G), GPRS, 4G, Bluetooth, Rs485					

Specifications are subject to change without prior notice due to constant improvement in design and technology.