



2 - 4 KW Mini Single Phase

DATASHEET



18 AMP/String



Smart Monitoring
System



Overloading
Facility



Inbuilt
DC Switch
(Optional)

Model	PVBSM2K-M1**	PVBSM3K-M1	PVBSM3.3K-M1	PVBSM3.6K-M1	PVBSM4K-M1
	2 KW	3 KW	3.3 KW	3.6 KW	4 KW
DC Input					
Recommended max. PV power (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)	2 KW	3 KW	3.3 KW	3.6 KW	4 KW
Rated/Max. apparent output power(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)	2 KW	3 KW	3.3 KW	3.6 KW	4 KW
Rated grid output current (A)	8.7 A	13 A	14.3 A	15.7 A	17.4 A
Max. output current (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	98.50%				
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 x 220 x 132 mm*		320 x 220 x 155 mm*		
Shell material	Aluminium alloy				
Weight (Kg)	5.2 Kg*		5.5 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, IEC 62116/ IS 16169, AS/NZS 4777.2:2020				
Safety/EMC standard	IEC 62109-1, IEC 62109-2/IS 16221-2, IEC-61000-6-1/-2/-3/-4				
Display	LCD				
DC connection	MC4/D4				
Communications	WiFi(2.4G), GPRS, Rs485				

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

*Approx, **Specific System Design Required