

4.6 – 5.5kW Single Phase Single MPPT Datasheet

Model	PVBSM4.6K-M1	PVBSM5K-M1	PVBSM5.5K-M1
	4.6 KW	5 KW	5.5 KW
DC Input			
Max. PV power (KW)	6.9 KW	7.5 KW	8.2 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)	4.6 KW	5 KW	5.5 KW
Rated/Max. apparent output power(KVA)	4.6 KVA/4.6 KVA	5 KVA/5 KVA	5.5 KVA/5.5 KVA
Max. active power (KW)	4.6 KW	5 KW	5.5 KW
Rated grid output current (A)	20.0 A	21.7 A	23.9 A
Max. output current (A)	20.0 A	21.7 A	23.9 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. Overall efficiency	98.60%		
Max. EU efficiency	98.10%		
Protection			
Ground fault monitoring	Yes		
Output over voltage protection	Yes		
Anti-islanding protection	Yes		
Integrated AFCI	Optional		
DC Isolator	Optional		
DC reverse-polarity protection	Yes		
Oversoltage category	AC Class III/PV Class II		
General Data			
Dimension (W*H*D) (mm)	350 x 340 x 156 mm*		
Shell material	Aluminium alloy		
Weight (Kg)	11 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		
Safety/EMC standard	IEC 62109-2/IS 16221-2		
Display	LCD		
DC connection	MC4/D4		
Communications	WiFi(2.4G), GPRS, 4G, Rs485		

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

*Approx, T&C Apply