



18 AMP/String



**Smart Monitoring
System**



**Overloading
Facility**



**Inbuilt
DC Switch**
(Optional)

15 – 30 KW Three Phase

DATASHEET

Model	PVBT25K-M1	PVBT30K-M1
	25 KW	30 KW
DC Input		
Recommended max. PV power (KW)	37.5 KW	45 KW
Max. input voltage (V)	1100 V	
Start-up voltage/Min. input DC operation voltage (V)	50 V/40 V	
MPPT voltage range (V)	100 V~1080 V	
Max. input current/Max MPPT input current (A)	36 A/36 A/36 A	
Max. short circuit current/Max MPPT short circuit current (A)	44 A/44 A/44 A	
MPPT number	3	
String number per MPPT	2/2/2	
AC Output		
Rated output power (KW)	25 KW	30 KW
Rated/Max. apparent output power(KVA)	25 KVA/25 KVA	30 KVA/30 KVA
Max. active power (KW)	25 KW	30 KW
Rated grid output current (A)	36.2 A	43.5 A
Max. output current (A)	36.2 A	43.5 A
Rated grid voltage (L/N/PE) (V)	220/380, 230/400	
Rated grid frequency (Hz)	50 Hz	
Power Factor	>0.99, 0.8 leading ~ 0.8 lagging	
THDi	<3%	
Efficiency		
Max. efficiency	98.80%	
EU efficiency	98.30%	
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)	488 x 472 x 172 mm*	
Shell material	Aluminium alloy	
Weight (Kg)	21 Kg*	
Operating ambient temperature range (°C)	-25~60 °C	
Noise emission (dB(A))	≤40 dB(A)	
Topology	Transformerless	
Ingress protection	IP66	
Cooling concept	External fan-cooling	
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