



18 AMP/String



**Smart Monitoring
System**



**Overloading
Facility**



**Inbuilt
DC Switch
(Optional)**

5 – 20 KW Three Phase

DATASHEET

Model	PVBT5KPro-M1	PVBT6KPro-M1	PVBT8K-M1	PVBT10K-M1	PVBT12K-M1	PVBT15K-M1	PVBT18K-M1	PVBT20K-M1
	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	18 KW	20 KW
DC Input								
Recommended max. PV power (KW)	7.5 KW	9 KW	12 KW	15 KW	18 KW	22.5 KW	27 KW	30 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)	18 A/18 A/18 A			18 A/18 A/36 A				
Max. short circuit current/Max MPPT short circuit current (A)	22 A/22 A/22 A			22 A/22 A/44 A				
MPPT number	3							
String number per MPPT		1/1/1		1/1/2				
AC Output								
Rated output power (KW)	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	18 KW	20 KW
Rated/Max. apparent output power(KVA)	5 KVA/5 KVA	6 KVA/6 KVA	8 KVA/8 KVA	10 KVA/10 KVA	12 KVA/12 KVA	15 KVA/15 KVA	18 KVA/18 KVA	20 KVA/20 KVA
Max. active power (KW)	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	18 KW	20 KW
Rated grid output current (A)	7.25 A	8.7 A	11.6 A	14.5 A	17.4 A	21.7 A	26.1 A	29 A
Max. output current (A)	7.25 A	8.7 A	11.6 A	14.5 A	17.4 A	21.7 A	26.1 A	29 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)	411 x 401 x 166 mm*							
Shell material	Aluminium alloy							
Weight (Kg)	15 Kg*							
Operating ambient temperature range (°C)	-25~60 °C							
Noise emission (dB(A))	≤20 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