



Higher Input

Industry-leading input capacity "Up to 36A".



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

5 - 20 KW Three Phase

DATASHEET

	PVBT5KPro-M1	PVBT6KPro-M1	PVBT8K-M1	PVBT10K-M1
	5 KW	6 KW	8 KW	10 KW
DC Input				
Recommended max. PV power (KW)	7.5 KW	9 KW	12 KW	15 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
Rated/Max. apparent output power(KVA)	5 KVA/5 KVA	6 KVA/6 KVA	8 KVA/8 KVA	10 KVA/10 KVA
Max. active power (KW)	5 KW	6 KW	8 KW	10 KW
Rated grid output current (A)	7.25 A	8.7 A	11.6 A	14.5 A
Max. output current (A)	7.25 A	8.7 A	11.6 A	14.5 A
Rated grid voltage (L/N/PE) (V)	220/380, 230/400			
Rated grid frequency (Hz)	50/60 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*401*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	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.

	PVBT12K-M1	PVBT15K-M1	PVBT18K-M1	PVBT20K-M1
	12 KW	15 KW	18 KW	20 KW
DC Input				
Recommended max. PV power (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/36 A			
Max. short circuit current/Max MPPT short circuit current (A)	22 A/22 A/44 A			
MPPT number	3			
String number per MPPT	1/1/2			
AC Output				
Rated output power (KW)	12 KW	15 KW	18 KW	20 KW
Rated/Max. apparent output power(KVA)	12 KVA/12 KVA	15 KVA/15 KVA	18 KVA/18 KVA	20 KVA/20 KVA
Max. active power (KW)	12 KW	15 KW	18 KW	20 KW
Rated grid output current (A)	17.4 A	21.7 A	26.1 A	29 A
Max. output current (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)	50/60 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*401*166 mm			
Shell material	Aluminium alloy			
Weight (Kg)	15.2 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/ 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			

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