

TECHNICAL DATA FRONIUS PRIMO (5.0-1, 5.0-1 AUS, 6.0-1, 8.2-1)

INPUT DATA	PRIMO 5.0-1 ¹⁾	PRIMO 5.0-1 AUS	PRIMO 6.0-1	PRIMO 8.2-1
Max. input current ($I_{dc \text{ max } 1} / I_{dc \text{ max } 2}$)	12.0 A / 12.0 A		18.0 A / 18.0 A	
Max. array short circuit current (MPP _v /MPP _p)	18.0 A / 18.0 A		27.0 A / 27.0 A	
Min. input voltage ($U_{dc \text{ min}}$)			80 V	
Feed-in start voltage ($U_{dc \text{ start}}$)			80 V	
Nominal input voltage ($U_{dc \text{ r}}$)			700 V	
Max. input voltage ($U_{dc \text{ max}}$)			1,000 V	
Usable MPP voltage range ($U_{\text{mpp min}} - U_{\text{mpp max}}$)		80 V - 800 V		
MPP voltage range at nominal power ($U_{\text{mpp min}} - U_{\text{mpp max}}$)		240 - 800 V		270 - 800 V
Number of MPP trackers		2		
Number of DC connections		2 + 2		

OUTPUT DATA	PRIMO 5.0-1 ¹⁾	PRIMO 5.0-1 AUS	PRIMO 6.0-1	PRIMO 8.2-1
AC nominal output ($P_{ac,r}$)	5,000 W	4,600 W	6,000 W	8,200 W
Max. output power	5,000 VA	5,000 VA	6,000 VA	8,200 VA
AC output current ($I_{ac \text{ nom}}$)	21.7 A	21.7 A	26.1 A	35.7 A
Grid connection (voltage range)		1 - NPE 220 V / 230 V (180 V - 270 V)		
Frequency (frequency range)		50 Hz / 60 Hz (45 - 65 Hz)		
Total harmonic distortion		< 5 %		
Power factor ($\cos \varphi_{ac,r}$)		0.85 - 1 ind. / cap.		

GENERAL DATA	PRIMO 5.0-1 ¹⁾	PRIMO 5.0-1 AUS	PRIMO 6.0-1	PRIMO 8.2-1
Dimensions (height x width x depth)		645 x 431 x 204 mm		
Weight		21.5 kg		
Degree of protection		IP 65		
Protection class		1		
Overvoltage category (DC / AC) ²⁾		2 / 3		
Night time consumption		< 1 W		
Inverter design		Transformerless		
Cooling		Regulated air cooling		
Installation		Indoor and outdoor installation		
Ambient temperature range		-40 - +55 °C		
Permitted humidity		0 - 100 %		
Max. altitude		4,000 m		
DC connection technology		2x DC+1, 2x DC+2 and 4x DC-screw terminals 2.5 - 16 mm ²		
Mains connection technology		3-pole AC screw terminals 2.5 - 16 mm ²		
Certificates and compliance with standards		DIN V VDE 0126-1-1/A1, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 4777-2, AS 4777-3, G83/2, G59/3, CEI 0-21		