

blueplanet 60.0 TL3

Transformerless, three-phase string inverter.



The inverter you can count on.

Compact wall-mounted unit for decentralised megawatt projects

Tailored for economical use in solar parks

Farsighted technical features for future requirements

Installation-friendly connection area, user-friendly operation

Integrated section switches for cost-effective grid and plant protection with Powador-protect

Technical Data

DC input data		60.0 TL3
Max. recommended PV generator power		90 000 W
MPP range		580 ¹⁾ – 900 V
Operating range		580 ¹⁾ – 1 050 V
Rated DC voltage / start voltage		600 V / 670 V
Max. no-load voltage		1 100 V
Max. input current		107 A
Max. short circuit current $I_{sc,max}$		190 A
Number of MPP tracker		1
Connection per tracker		B / M: 1; XL: 12
AC output data		
Rated output		60 000 VA
Max. power		60 000 VA
Line voltage		240 V / 415 V (3 / N / PE; 3 / PEN) 230 V / 400 V (3 / N / PE; 3 / PEN) 220 V / 380 V (3 / N / PE; 3 / PEN)
Voltage range (Ph-Ph)		305 – 480 V
Rated frequency (range)		50 Hz / 60 Hz (42 – 68 Hz)
Rated current		3 x 86.7 A @ 400 V
Max. current		3 x 90.0 A continuously
Reactive power / cos phi		0 - 100 % Snom / 0.30 ind. – 0.30 cap.
Max. total harmonic distortion (THD)		1.6 %
Number of grid phases		3
General data		
Max. efficiency		98.5 %
Europ. efficiency		98.1 %
CEC efficiency		98.0 %
Standby consumption		2.5 W
Circuitry topology		transformerless
Mechanical data		
Display		graphical display + LEDs
Control units		4-way navigation + 2 buttons
Interfaces		Ethernet, USB, RS485, optional: 4-DI
Fault signalling relay		potential-free NOC max. 30 V / 1 A
DC connection		B / M: max.120 mm ² cable plug, Cu / Al XL: DC plugs (SUNCLIX)
AC connection		screw terminals, max. 95 mm ² , Cu / Al
Ambient temperature		-20 °C – +60 °C ²⁾
Humidity		0 – 100 %
Max. installation elevation (above MSL)		3 000 m
Cooling		temperature controlled fan
Protection class		IP65
Noise emission		< 61 db (A)
H x W x D		760 x 500 x 425 mm
Weight		71 kg (B / M), 73 kg (XL)
Certifications		
Safety		IEC 62109-1/-2 EN 61000-6-1/-2/-4 EN 61000-3-11/-12
Grid connection rule		overview see homepage / download area

¹⁾ 560 V @ 220 V / 380 V; 610 V @ 240 V / 415 V
²⁾ Power derating at high ambient temperatures

Versions	B	M	XL	XLF
Number of DC inputs	1	1	12	12
DC switch	✓	✓	✓	✓
Fuse holder PV+ without fuse	-	-	✓	✓
String protection PV -	-	-	○	○
DC surge protection	-	○	Type 1 + 2	Type 1 + 2
AC surge protection	-	○	○	○

standard = ✓ upgradeable = ○