

blueplanet 15.0 + 20.0 TL3

Transformerless, three-phase string inverters.



The all-rounders among inverters.

High flexibility for demanding system designs and string configurations

Manifold safety functions

Installation-friendly connection area, user-friendly operation

Numerous standard interfaces for extensive communication options

Internal storage of log data, no separate data logger required



Technical Data

DC input data	15.0 TL3	20.0 TL3
Max. recommended PV generator	18 000 W	24 000 W
MPP range	420 – 800 V	515 – 800 V
Operating range	200 – 950 V	200 – 950 V
Rated DC voltage / start voltage	673 / 250 V	673 / 250 V
Max. no-load voltage	1 000 V	1 000 V
Max. input current	2 x 20 A / 1 x 40 A ¹⁾	2 x 20 A / 1 x 40 A ¹⁾
Max. short circuit current $I_{sc\ max}$	2 x 32 A	2 x 32 A
Number of MPP tracker	2	2
Connection per tracker	2	2
Max. input power per tracker	15 000 W	15 000 W
AC output data		
Rated output	15 000 VA	20 000 VA
Max. power	15 600 VA	20 800 VA
Line voltage	240 V / 415 V (3 / N / PE) 230 V / 400 V (3 / N / PE) 220 V / 380 V (3 / N / PE)	277 V / 480 V (3 / N / PE) 240 V / 415 V (3 / N / PE) 230 V / 400 V (3 / N / PE) 220 V / 380 V (3 / N / PE)
Voltage range (Ph-Ph)	305 – 480 V	305 – 480 V
Rated frequency (range)	50 Hz / 60 Hz (42 – 68 Hz)	50 Hz / 60 Hz (42 – 68 Hz)
Rated current	3 x 20.9 A @ 415 V 3 x 21.7 A @ 400 V 3 x 22.8 A @ 380 V	3 x 24.1 A @ 480 V 3 x 27.9 A @ 415 V 3 x 28.9 A @ 400 V 3 x 30.4 A @ 380 V
Max. current	3 x 23.0 A	3 x 31.0 A
Reactive power / cos phi	0 – 100 % Snom / 0.30 ind. – 0.30 cap.	0 – 100 % Snom / 0.30 ind. – 0.30 cap.
Max. total harmonic distortion (THD)	0.7 %	0.5 %
Number of grid phases	3	3
General data		
Max. efficiency	98.0 %	98.4 %
Europ. efficiency	97.6 %	98.1 %
CEC efficiency	97.6 %	98.1 %
Standby consumption	1.5 W	1.5 W
Circuitry topology	transformerless	transformerless
Mechanical data		
Display	graphical display + LEDs	graphical display + LEDs
Control units	4-way navigation + 2 buttons	4-way navigation + 2 buttons
Interfaces	Ethernet, USB, RS485, optional: 4-DI	Ethernet, USB, RS485, optional: 4-DI
Fault signalling relay	potential-free NOC max. 30 V / 1 A	potential-free NOC max. 30 V / 1 A
DC connection	DC plugs (MC4)	DC plugs (MC4)
AC connection	spring-loaded terminal, max. 16 mm ²	spring-loaded terminal, max. 16 mm ²
Ambient temperature	-25 °C – +60 °C ²⁾	-25 °C – +60 °C ²⁾
Humidity	0 – 95 %	0 – 95 %
Max. installation elevation (above MSL)	2 000 m	2 000 m
Min. distance from coast	2 000 m / 500 m (OD+ version)	500 m
Cooling	temperature controlled fan	temperature controlled fan
Protection class	IP65	IP65
Noise emission	< 52 db (A)	< 53 db (A)
H x W x D	690 x 420 x 200 mm	690 x 420 x 200 mm
Weight	48 kg	48 kg
Certifications		
Safety	EN 62109-1 / -2, EN 61000-6-1 / -2 / -3, EN 61000-3-2 / -3 / -11 / -12	
Grid connection rule	overview see homepage / download area	

¹⁾ Parallel connection of the MPP trackers e.g. with repowering

²⁾ Power derating at high ambient temperatures

Versions	15.0 TL3	20.0 TL3
DC switch	✓	✓
DC surge protection	○	○

standard = ✓ upgradeable = ○