

blueplanet 92.0 TL3

Transformerless, three-phase string inverter.



The trendsetter among inverters.

Suitable for use with 1000 Volt
and 1500 Volt modules

Extensive grid management
functions

Special properties for extreme
climatic conditions

Farsighted technical features for
future requirements

Lean commissioning and
maintenance via remote services

Technical Data

DC input data		92.0 TL3	PRELIMINARY
Max. recommended PV generator power		138 000 W	
MPP range		591 – 1 300 V ¹⁾	
Operating range		591 – 1 450 V ¹⁾	
Rated DC voltage / start voltage		620 V / 675 V ¹⁾	
Max. no-load voltage		1 500 V	
Max. input current		160 A	
Max. short circuit current $I_{sc\ max}$		300 A	
Number of MPP tracker		1	
Connection per tracker		2	
AC output data			
Rated output		92 000 VA	
Max. power		92 000 VA	
Line voltage		400 V (3P+PE)	
Voltage range (Ph-Ph)		300 – 580 V	
Rated frequency (range)		50 Hz / 60 Hz (45 – 65 Hz)	
Rated current		3 x 132,3 A	
Max. current		3 x 132,3 A	
Reactive power / cos phi		0 – 100 % Snom / 0,30 ind. – 0,30 cap.	
Max. total harmonic distortion (THD)		≤ 3 %	
Number of grid phases		3	
General data			
Max. efficiency		> 99,0 %	
Europ. efficiency		> 98,5 %	
CEC efficiency		> 98,5 %	
Standby consumption		< 10 W	
Circuitry topology		transformerless	
Mechanical data			
Display		LEDs	
Control units		webserver, supports mobile devices	
Interfaces		Ethernet (Modbus TCP, Sunspec) RS485 (Modbus RTU, Sunspec, KACO-protocol) USB, optional: 4-DI, WIFI	
Fault signalling relay		potential-free NOC max. 30 V / 1 A	
DC connection		cable lug, max. 240 mm ² (0.372 in ²) Cu or Al	
AC connection		cable lug, max. 240 mm ² (0.372 in ²) Cu or Al	
Ambient temperature		-25 °C – +60 °C ²⁾	
Humidity		0 – 100 %	
Max. installation elevation (above MSL)		3 000 m	
Min. distance from coast		2 000 m / 500 m (OD+ version)	
Cooling		temperature controlled fan	
Protection class		IP66 / NEMA 4X	
Noise emission		< 69 db (A)	
H x W x D		719 x 699 x 450 mm	
Weight		< 80 kg	
Certifications			
Safety		IEC 62109-1/-2, EN 61000-6-1/-2/-3, EN 61000-3-11/-12	
Grid connection rule		overview see homepage / download area	

¹⁾ Line voltage 240 V; MPP-range 613 - 1 300 V | start voltage 700 V

²⁾ Power derating at high ambient temperatures

Versions	S	XL
Number of DC inputs	2	2
DC switch	-	✓
DC surge protection	○	Type 1 + 2
AC surge protection	○	○
RS485 interface surge protection	○	○
Ethernet interface surge protection	○	○
OD+	★	★

standard = ✓ upgradeable = ○ optional = ★

Text und Abbildungen entsprechen dem technischen Stand bei Drucklegung. Technische Änderungen vorbehalten. Keine Haftung für Druckfehler. Mit der aktuellen Version werden alle älteren Versionen ungültig. Die jeweils aktuelle Version finden Sie unter www.kaco-newenergy.com