

blueplanet 105 TL3

String inverter for commercial and industrial PV systems.



Well-combined.

Cost-saving due to 400 V line voltage and integrated section switches

Optimised for PV modules with 1000 V and 1500 V

Highest efficiency and overload capacity through silicon carbide technology

High power density for easy handling and logistics

Lean commissioning and updates via remote services

Decentralised design or ‚Virtual Central‘ concept possible



Technical Data

DC input data		105 TL3
Max. recommended PV generator power	157 500 W	
MPP range	591 – 1 300 V	
Operating range	563 – 1 450 V	
Rated DC voltage / start voltage	620 V / 675 V	
Max. no-load voltage	1 500 V	
Max. input current	183 A	
Max. short circuit current $I_{sc,max}$	300 A	
Number of MPP tracker	1	
Connection per tracker	1 - 2	
AC output data		
Rated output	99 900 VA	
Max. power	105 000 VA	
Line voltage	380 V (3P+PE) 400 V (3P+PE) 415 V (3P+PE)	
Voltage range (Ph-Ph)	300 – 478 V	
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)	
Rated current	3 x 144.5 A	
Max. current	3 x 152.0 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	98.9 %	
Europ. efficiency	98.6 %	
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 (KACO-protocol), USB, optional: 4-DI	
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 ¹⁾	
Humidity	0 – 100 %	
Max. installation elevation (above MSL)	3 000 m	
Min. distance from coast	500 m	
Cooling	temperature controlled fan	
Protection class	IP66 / NEMA 4X	
Noise emission	59.2 db (A)	
H x W x D	719 x 699 x 460 mm	
Weight	78.2 kg	
Certifications		
Safety	IEC 62109-1/-2, EN 61000-6-1/-2/ 4, EN 61000-3-11/-12, EN 55011 group 1, class A EN 62920 Emission class A/Immunity class A	
Grid connection rule	overview see homepage / download area	

¹⁾ Power derating at high ambient temperatures

Versions	S	XL
Number of DC inputs	1 - 2	1 - 2
DC switch	-	✓
DC SPD	Type 1 + 2	Type 1 + 2
AC SPD	○	○
RS485 interface SPD	○	○
Ethernet interface SPD	○	○
PID Set	○	○

standard = ✓ upgradeable = ○