

# 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

<b>DC input data</b>		<b>105 TL3</b>
Max. recommended PV generator power		157 500 W
MPP range		591 – 1 300 V
Operating range		591 – 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
<b>AC output data</b>		
Rated output		99 900 VA
Max. power		105 000 VA
Line voltage		400 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 A
Reactive power / cos phi		0 – 100 % $S_{nom}$ / 0,30 ind. – 0,30 cap.
Max. total harmonic distortion (THD)		≤ 3 %
Number of grid phases		3
<b>General data</b>		
Max. efficiency		98.9 %
Europ. efficiency		98.6 %
CEC efficiency		98.5 %
Standby consumption		5 W
Circuitry topology		transformerless
<b>Mechanical data</b>		
Display		LEDs
Control units		webserver, supports mobile devices
Interfaces		Ethernet (Modbus TCP, Sunspec), RS485 (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 <sup>2</sup> (0.372 in <sup>2</sup> ) Cu or Al
AC connection		cable lug, max. 240 mm <sup>2</sup> (0.372 in <sup>2</sup> ) Cu or Al
Ambient temperature		-25 °C – +60 °C <sup>1)</sup>
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
<b>Certifications</b>		
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

<sup>1)</sup> Power derating at high ambient temperatures

<b>Versions</b>	<b>S</b>	<b>XL</b>
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 = ○