KACO new energy.

blueplanet 137 TL3

Transformerless, three-phase string inverter.

The trendsetter among inverters.

Optimized for solar power plants with 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	137 TL3
Max. recommended PV generator power	205 500 W
MPP range	875 – 1 300 V
Operating range	875 – 1 450 V
Rated DC voltage / start voltage	900 V / 1 000 V
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	1 - 2
AC output data	
Rated output	137 000 VA
Max. power	137 500 VA
Line voltage	600 V (3P+PE)
Voltage range (Ph-Ph)	480 – 760 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	99.2 %
Europ. efficiency	99.0 %
CEC efficiency	98.9 %
Standby consumption	7 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, WIFI
Fault signalling relay	potential-free NOC max. 30 V / 1 A
DC connection	cable lug, max. 240 mm² (0.372 in²) Cu or Al
AC connection	cable lug, max. 240 mm² (0.372 in²) 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	UL62109-1, UL1741, CSA-C22.2 No. 62109-1, CSA-C22.2 No. 62109-2, CSA-C22.2 No. 107.1 IEC 62109-1/-2, EN 61000-6-1/-2/-3, EN 61000-3-11/-12
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	O	O
RS485 interface SPD	O	O
Ethernet interface SPD	O	O
PID Set	O	O

standard = ✓ upgradeable = O

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