KACO
new energy.



blueplanet gridsave GEN2

92.0 TL3-S – 150 TL3-S

- New 150-kW class & DC window up to 1450 V
- Enhanced cybersecurity
- Future-proof certification & compliance roadmap

Data Sheet.
blueplanet gridsave 92.0TL3 – 150TL3 GEN2

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Battery Input (DC)	gridsave 92.0 TL3-S GEN2	gridsave 110 TL3-S GEN2	gridsave 137 TL3-S GEN2	gridsave 150 TL3-S GEN2
Standard charging / discharging voltage range	668 - 1450 V	801 - 1450 V	1002 - 1450 V	1102 - 1450 V
Max. operating voltage	1450 V			
Nominal current	145 A			
Max. short circuit current $I_{sc\ max}$	300 A			
DC-Isolation measurement	yes, before connecting to AC			
RCMU	yes, electronic replica of RCD Type B[1)]			
Number of DC inputs	1			
AC Output				
Nominal power	92 kVA	110 kVA	137 kVA	150 kVA
Nominal current	3 x 132,3 A			
Nominal voltage	400 V	480 V	600 V	660 V
Voltage range (Ph-Ph)	300 - 460 V	360 - 552 V	450 - 690 V	495 - 759 V
Frequency (range)	50 Hz / 60 Hz (45 Hz - 65 Hz)			
THD	< 3 %			
Number of grid phases	3			
Reactive power, cos phi range	0 – 100 % Smax / 0,30 ind. – 0,30 cap.			
General Data				
Max. efficiency	charge: 98,5 % discharge: 98,7 %	charge: 98,6% discharge: 98,8%	charge: 98,7% discharge: 98,9%	charge: 98,7% discharge: 98,9%
Operation methode	grid following (load / unload)			
DC parallel operation	yes, 2			
Communication	TCP / IP, Modbus TCP based on Sunspec			
Standby consumption	<10 W			
Protective functions	overvoltage, overcurrent, overload, overheating, undervoltage			
Topology	transformerless			
Distribution system	TN-System, TT-System, Solid grounded wye			
Mechanical Data				
Display	LEDs			
Controls	webserver			
Dimension (WxHxD)	719 x 699 x 450 mm			
Weight	80 kg			
Interfaces	Ethernet, USB			
Fault signalling relay	potential-free NOC max. 30 V / 1 A			
DC connection	cable lug, 240mm², cable gland 2 x M40			
AC connection	cable lug, 240mm², cable gland 4 x M40			
Communication connection	cable gland 2 x M25 / 3 x M16			
Ambient temperature range	-20 °C to 60 °C* [2)]			
Installation altitude	3000 m			
Installation humidity	0~100 % (Non condensing)			
Cooling method	Forced air cooling & replaceable fans			
Noise emission	<60 dB (A)			
Degree of protection	IP66 / NEMA 4X			
Certificates				
Safety	IEC 62477:2022., EN 62109-1, EN 62109-2			
Country grid codes	Overview: see homepage, download area			

[1)]Only in DC single mode
[2)]Derating at higher temperature

Versions	M	L	XL
Pre-charge	—	✓	✓
DC fuse	✓	✓	✓
DC load relay +	—	✓	✓
DC load relay -	—	—	✓

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors omissions excepted. This current version replaces all older versions. Download the most current version at: www.kaco-newenergy.com

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