

# blueplanet gridsave 92.0 - 137 TL3-S

Bidirectional battery inverters.



## Energy storage. Easy-going.

Introducing SiC semiconductor modules on the storage market

High efficiency, also in the partial load range

High system flexibility, AC and DC parallel operation possible

Reactive power capable

Easy to control through open communication standard

Pre-charge version and other variants available



## Technical Data

DC input data	gridsave 92.0 TL3-S	gridsave 110 TL3-S	gridsave 137 TL3-S
Operating voltage	668 - 1315 V <sup>1)</sup>	801 - 1315 V <sup>1)</sup>	1002 - 1315 V <sup>1)</sup>
Max. DC voltage	1315 V <sup>1)</sup>	1315 V <sup>1)</sup>	1315 V <sup>1)</sup>
Max. input current	145 A	145 A	145 A
Max. short circuit current I <sub>sc max</sub>	300 A	300 A	300 A
Number of DC inputs	1	1	1
AC output data			
Rated output	92 000 VA	110 000 VA	137 000 VA
Max. power	92 000 VA	110 000 VA	137 000 VA
Line voltage	400 V	480 V	600 V
Voltage range (Ph-Ph)	300 - 580 V	300 - 580 V	480 - 760 V
Rated frequency (range)	50 Hz / 60 Hz (45 Hz - 65 Hz)	50 Hz / 60 Hz (45 Hz - 65 Hz)	50 Hz / 60 Hz (45 Hz - 65 Hz)
Rated current	3 x 132.3 A	3 x 132.3 A	3 x 132.3 A
Max. current	3 x 132.3 A	3 x 132.3 A	3 x 132.3 A
Reactive power / cos phi		0 - 100 % Smax / 0.30 ind. - 0.30 cap.	
Max. total harmonic distortion (THD)	<3 %	<3 %	<3 %
Number of grid phases	3	3	3
General data			
Max. efficiency	Charge: 98.5% Discharge: 98.7%	Charge: 98.6% Discharge: 98.8%	Charge: 98.7% Discharge: 98.9%
Operation mode	on-grid (charge / discharge)	on-grid (charge / discharge)	on-grid (charge / discharge)
DC parallel operation	yes, 2	yes, 2	yes, 2
Communication	TCP / IP, Modbus TCP based on Sunspec		
Standby consumption	<8 W without PCU, <14 W with PCU relay closed		
Protective functions	overvoltage, overcurrent, overload, overheating, undervoltage		
Circuitry topology	transformerless	transformerless	transformerless
Mechanical data			
Display	LEDs	LEDs	LEDs
Control units	webserver	webserver	webserver
Interfaces	Ethernet, USB	Ethernet, USB	Ethernet, USB
Fault signalling relay	potential-free NOC max. 30V / 1 A	potential-free NOC max. 30V / 1 A	potential-free NOC max. 30V / 1 A
DC connection	cable lug	cable lug	cable lug
AC connection	screw terminal, max. 240 mm <sup>2</sup> Cu or Al		
Ambient temperature	-20 °C - +60 °C <sup>2)</sup>	-20 °C - +60 °C <sup>2)</sup>	-20 °C - +60 °C <sup>2)</sup>
Humidity	0 - 100 %	0 - 100 %	0 - 100 %
Max. installation elevation (above MSL)	3 000 m	3 000 m	3 000 m
Cooling	temperature controlled fan	temperature controlled fan	temperature controlled fan
Protection class	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X
Noise emission	<60 db (A)	<60 db (A)	<60 db (A)
H x W x D	719 x 699 x 450 mm	719 x 699 x 450 mm	719 x 699 x 450 mm
Weight	80 kg	80 kg	80 kg
Certifications			
Safety	IEC 62477-1:2012, IEC 62109-1/2		
Grid connection rule	overview see homepage / download area		

<sup>1)</sup>For country setting UD and IL, the operating range can be increased to 1450V, see manual - in chapter: Menu Structure

<sup>2)</sup>Power derating at high ambient temperatures  
Grid voltage UAC, min. battery voltage UDCmin and min. starting voltage UDCstartmin are dependent of each other;  
BG92.0: 668VDC @ 230V, BG110: 801VDC @ 277V, BG137: 1001VDC @ 346V

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