

HYBRID SERIES

GEN2-LB-EU 3-6K (Single-Phase)

- 2 MPPTs with Max. PV input of 9.6kW
- 18A Max. PV input current per MPPT
- Max. charge/discharge current: 125A / 140A
- Parallel operation support: Up to 10 units for both on-grid and off-grid systems
24/7 real-time monitoring: Access and manage remotely
- Dedicated ports for multiple connections:
 - Generator connection
 - Smart load connection
 - AC coupling function



Model	GEN2-LB-EU 3K		GEN2-LB-EU 3.6K		GEN2-LB-EU 4K		GEN2-LB-EU 4.6K		GEN2-LB-EU 5K		GEN2-LB-EU 6K	
Input (PV DC)												
Max. PV input power (W)	6600		7000		9000		9600					
Rated PV input voltage (V)					360							
Number of independent MPPT inputs					2 / (1:1)							
Max. PV input voltage (V)					530							
MPPT voltage range (V)					150 ~ 425							
Start-up voltage (V)					100							
Max. PV input current per MPPT (A)					18 / 18							
Max. PV short-circuit current input per MPPT (A)					32 / 32							
Battery												
Compatible battery type					Lithium-ion / Lead-Acid							
Rated battery voltage (V)					48							
Battery voltage range (V)					40 ~ 60							
Max. charging/discharging current (A)	80 / 80		80 / 80		80 / 80		96 / 96		105 / 120		125 / 140	
Max. charging/discharging power (W)	3000		3600		4000		4600		5000		6000	
Force wake up battery from PV function												
Grid					YES							
Rated AC voltage (V)												
Rated AC frequency (Hz)					230							
Rated AC output current (A)					50 / 60							
Rated AC output power (W)	13		15.7		17.4		20		21.7		26	
Max. AC input power (W)	3000		3600		4000		4600		5000		6000	
PF					12000							
THDI					0.99 (Adjustable from 0.8 leading to 0.8 lagging)							
Max. continuous AC passthrough current (A)					< 3%							
GEN					52.2							
Rated GEN voltage (V)												
Rated GEN frequency (Hz)					230							
Rated GEN input current (A)					50 / 60							
Rated GEN input power (W)					40							
UPS					9200							
Rated output power (W)												
Rated output voltage (V)	3000		3600		4000		4600		5000		6000	
Rated output current (A)					230							
Rated output frequency (Hz)	13		15.7		17.4		20		21.7		26	
Surge power, duration					50 / 60							
Switching time (UPS)					2 × rated power for 0.5s							
Wave form					7ms							
THDV					Sine wave							
Efficiency					< 5%							
MPPT efficiency					99.9%							
Max. efficiency					97.3%							
Max. charge / discharge efficiency					94.5%							
Protection												
Over current / voltage protection												
Anti-islanding protection												
AC Short-circuit current protection					YES							
Leakage current protection					YES							
Ground fault monitoring					YES							
Grid monitoring					YES							
DC switch					YES							
DC surge protection					YES							
AC surge protection					YES							
General					Type III							
Dimensions (W × H × D)					Type III							
Weight												
Ingress protection rating					440 528 220 mm / 17.4 20.8× 8.7 in							
Operating environment temperature range (°C)					25 kg / 55 lbs							
Storage temperature range (°C)					NEMA4X / IP66							
Relative humidity					-25 ~ 60							
Display & Communication interface					-40 ~ 65							
Warranty					0 ~ 100%							
Cooling method					LCD + RGB, RS485 / Wi-Fi / CAN							
Topology on AC side					5 / 10 years							
Topology on Battery side												
Max. Operating Altitude (m)			NaturalCooling				Smart cooling					
Noise emission (dB)					Transformerless							
DC connection (VP-D4/MC4 (Optional))					Transformer							
AC connector					2000							
Standards & Certification			30				40				50	
EN 62109/EN 61000, IEC 62116, IEC 61727, IEC 61683, G100/G99/G98, PIPEREE TypeA, CEI 0-21: 2022 (V2024-01)					YES							