

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 (Charge) / 140A (Discharge)
- 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
<b>Input (PV DC)</b>						
Max. PV input power (W)	6600	7000		9000		9600
Rated PV input voltage (V)				360		
Number of independent MPPT inputs				2/(1:1)		
PV input voltage range (V)				100-530		
MPPT voltage range (V)				150-425		
Start-up voltage (V)				100		
Max. PV input current per MPPT (A)				18		
Max. PV short-circuit current input per MPPT (A)				32		
<b>Battery</b>						
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	YES					
<b>Grid</b>						
Rated AC voltage (V)	230					
Rated AC frequency (Hz)	50/60					
Rated AC output current (A)	13	15.7	17.4	20	21.7	26
Rated AC output power (W)	3000	3600	4000	4600	5000	6000
Max. AC input power (W)	12000					
PF	0.99(Adjustable from 0.8 leading to 0.8 lagging)					
THDI	<3%					
Max. continuous AC passthrough current(A)	52.2					
<b>GEN</b>						
Rated GEN voltage (V)	230					
Rated GEN frequency (Hz)	50/60					
Rated GEN input current (A)	26					
Rated GEN input power (W)	6000					
Rated GEN current of BYPASS relays (A)	60					
<b>UPS</b>						
Rated output power (W)	3000	3600	4000	4600	5000	6000
Rated output voltage (V)	230					
Rated output current (A)	13	15.7	17.4	20	21.7	26
Rated output frequency (Hz)	50/60					
Surge power, duration	2Pn, 0.5s					
Switching time (UPS)	20ms					
Wave form	Sine wave					
THDV	<5%					
<b>Efficiency</b>						
MPPT efficiency	99.9%					
Max. efficiency	97.3%					
Max. charging efficiency	94.5%					
Max. discharging efficiency	94.5%					
<b>Protection</b>						
Over current/voltage protection	YES					
Anti-islanding protection	YES					
AC Short-circuit current protection	YES					
Leakage current protection	YES					
Ground fault monitoring	YES					
Grid monitoring	YES					
DC switch	YES					
DC surge protection	Type III					
AC surge protection	Type III					
<b>General</b>						
Dimensions (W*H*D)	524*420*219.5mm / 20.6*16.5*8.6 in					
Weight	Approx. 20kg					
Ingress protection rating	IP65					
Operating environment temperature range (°C)	-25~60					
Storage temperature range (°C)	-40~65					
Relative humidity	0~95%					
Display & Communication interface	LCD+RGB, RS485/Wi-Fi/CAN					
Warranty	5/10 years					
Cooling method	Smart cooling					
Topology on AC side	Transformer-less					
Topology on Battery side	Transformer					
Altitude(m)	2000					
Noise emission(typical)	50dB					
DC connection(VP-D4/MC4(Optional))	MC4					
AC connector	YES					
<b>Standards &amp; Certification</b>						
G99, G100, CEI 0-21, RD 1699, NTS, UNE 217001, NRS 097						