HYBRID SERIES

GEN3-LB-EU 3-8K (Single-Phase)

- Next-generation internal structure optimization for easier handling and installation.
- Supports up to 12kW PV input with 2 independent MPPTs for enhanced energy generation efficiency.
- Up to 180A charge/discharge current to maximize battery potential.
- IP66 protection rating for reliable performance in outdoor environments.
- Built-in Type II AC/DC surge protection for enhanced system safety.
- Supports up to 16 units in parallel.





Model	GEN3-LB-EU 3K	GEN3-LB-EU 3.6K	GEN3-LB-EU 4K	GEN3-LB-EU 4.6K	GEN3-LB-EU 5K	GEN3-LB-EU 6K	GEN3-LB-EU 8K
Input (PV DC)							
Max. PV input power (W)	12000						
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)	140						
Max. PV input current per MPPT (A)	20 / 20						
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. charge / discharge current (A)	80	80	80	95	120	125	180
Max. charge / discharge power (W)	3600	3600	4000	4600	5000	6000	8000
Force wake up battery from PV and GEN function	YES						
Grid							
Rated AC voltage (V)	230						
Rated AC frequency (Hz)	50 / 60						
Rated AC output current (A)	13	16	20	25	21.7	26	34.7
Rated AC output power (W)	3000	3600	4000	4600	5000	6000	8000
Max. AC input current (A)	52						
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						
GEN							
Rated GEN voltage (V)	230						
Rated GEN frequency (Hz)	50 / 60						
Rated GEN input current (A)	52						
Rated GEN input power (W)	12000						
UPS							
Rated output power (W)	3000	3600	4000	4600	5000	6000	8000
Rated output voltage (V)	230						
Rated output current (A)	13	16	20	25	21.7	26	34.7
Rated output frequency (Hz)	50 / 60						
Surge power, duration	2 × rated power for 1s						
Switching time	7ms						
Wave form	Sine wave						
THDV	< 3%						
Efficiency							
MPPT efficiency	99.9%						
Max. efficiency	97.0%						
Max. charge / discharge efficiency	95.0%						
Protection							
Over current / voltage protection	YES						
Anti-islanding protection	YES						
AC short-circuit current protection	YES						
Leakage current protection	YES						
AFCI	Optional						
Ground fault monitoring	YES						
Grid monitoring	YES						
DC switch	YES						
AC / DC surge protection	Type II						
General							
Dimensions (W × H × D)	412 × 534.5 × 229.5 mm / 16.22 × 21.04 × 9.04 in						
Weight	TBD						
Ingress protection rating	IP66						
Relative humidity	0 ~ 100%						
Operating environment temperature range (°C)	-25 ~ 60 ℃ , > 45 ℃ Derating						
Storage temperature range (°C)	-40 ~ 65						
Display & Communication interface	LCD, RS485, Wifi, CAN						
Warranty	5 years						
Cooling method	Smart cooling						
Topology on AC / battery side	Transformer						
Max. operating altitude (m)	2000, > 2000 Derating						
Noise emission (dB)	30						50
Standard & Certification							
EN62109-1/-2, EN61000, EN50549-1/-10, UNE27001/UNE27002, G99, G100							