

LU  POWER^{TEK}

HYBRID SERIES //

GEN2-LB-EU 7-14K

(Single-Phase)



18kW

Max. PV input
power



250A

Max. charge/discharge
current



10

Units parallel

- AI-Driven optimization mode for e-bill reduction
- Dedicated port for Generator, Smart load and AC coupling
- Support auto generator control, generator exercise, generator boost

SPECIFICATIONS

Model	GEN2-LB-EU 7K		GEN2-LB-EU 8K		GEN2-LB-EU 10K		GEN2-LB-EU 12K		GEN2-LB-EU 14K	
Input (PV DC)										
Max. PV input power (W)	12000				15000		18000			
Rated PV input voltage (V)					340					
Number of independent MPPT inputs					3 / (1:1:1)					
Max. PV input voltage (V)					550					
MPPT voltage range (V)					120 ~ 440					
Start-up voltage (V)					100					
Max. PV input current per MPPT (A)					26 / 15 / 15					
Max. PV short-circuit current input per MPPT (A)					31 / 18 / 18					
Battery										
Compatible battery type	Lithium-ion / Lead-Acid									
Rated battery voltage (V)	48									
Battery voltage range (V)	40 ~ 60									
Max. charge / discharge current (A)	147		167		210		250			
Max. charge / discharge power (W)	7000		8000		10000		12000			
Force wake up battery from PV&Grid&GEN function	YES									
Grid										
Rated AC voltage (V)	230									
Rated AC frequency (Hz)	50 / 60									
Rated AC output current (A)	30.5		35		43.5		52		61	
Rated AC output power (W)	7000		8000		10000		12000		14000	
Acceptable input voltage range (V)	180 ~ 270									
Max. AC input current (A)	100									
Max. AC input power (W)	22500									
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)									
THDI	< 5%									
Max continuous AC passthrough current (A)	100									
GEN										
Rated GEN voltage (V)	230									
Rated GEN frequency (Hz)	50 / 60									
Rated GEN input current (A)	80									
Rated GEN input power (W)	18000									
UPS										
Rated output power (W)	7000		8000		10000		12000			
Rated output voltage (V)	230									
Rated output current (A)	30.5		35		43.5		52			
Rated output frequency (Hz)	50 / 60									
Surge power, duration	2 × rated power for 0.5s									
Switching time (UPS)	<7ms@Single; <20ms@Parallel									
Wave form	Sine wave									
THDV	< 3%									
Efficiency										
MPPT efficiency	99.9%									
EU efficiency	94.2%									
Max. efficiency	95.1%									
Max. charge / discharge efficiency	95.0%									
Protection										
Over current / voltage protection	YES									
AC short-circuit current protection	YES									
Grid monitoring	YES									
DC switch	YES									
AC / DC surge protection	Type III									
General										
Dimensions (W × H × D)	566 × 653 × 275 mm / 22.3 × 25.7 × 10.8 in									
Weight	48 kg / 105.8 lbs									
Ingress protection rating	IP66									
Relative humidity	0 ~ 100%									
Operating environment temperature range (°C)	-25 ~ 60 °C , > 45 °C Derating									
Storage temperature range (°C)	-25 ~ 60									
Display & Communication interface	Touch color screen, RS485 / Wifi / CAN									
Warranty	5 / 10 years									
Cooling method	Smart cooling									
Topology on AC / Battery side	Transformerless / Transformer									
Max. operating altitude (m)	4000, > 2000 Derating									
Noise emission (dB)	< 55									
Standard & Certification										
PTPIREE TypeA, EN 62109-1/EN 61000, G100/G99										