LUXPOWERTEK

HYBRID SERIES

GEN PRO-LB-EU 7-12K

(Single-Phase)



21kW
Max. PV input power

250A
Max. charge/discharge current

16
Units parallel

- Output power from 7kW to 12kW
- Built-in Type II AC/DC surge protection
- IP66 protection rating
- Next-generation internal structure optimization

SPECIFICATIONS

Model	GEN PRO-LB-EU 7K	GEN PRO-LB-EU 8K	GEN PRO-LB-EU 10K	GEN PRO-LB-EU 12K
Input (PV DC)				
Max. PV input power (W)	14000	16000	21000	21000
Rated PV input voltage (V)	360			
Number of independent MPPT inputs	3 / (1:1:1)			
Max. PV input voltage (V)	530			
MPPT voltage range (V)	60 ~ 425			
Start-up voltage (V)	50			
Max. PV input current per MPPT (A)	20 / 20 / 20			
Max. PV short-circuit current input per MPPT (A)	32 / 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)	147	180	230	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	34.7	43.5	52
Rated AC output power (W)	7000	8000	10000	12000
Max. AC input current (A)	100			
Max. AC input power (W)	23000			
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI	< 3%			
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)	18400			
UPS				
Rated output power (W)	7000	8000	10000	12000
Rated output voltage (V)	230			
Rated output current (A)	30.5	34.7	43.5	52
Rated output frequency (Hz)	50 / 60			
Surge power, duration	2 × rated power for 10s			
Switching time	7ms			
Wave form	Sine wave			
THDV	< 3%			
Efficiency				
MPPT efficiency	99.9%			
EU efficiency	96.0%			
Max. efficiency	97.3%			
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)	420 × 634 × 229.5 mm / 16.54 × 24.96 × 9.04 in			
Weight	27.2 kg / 60 lbs		30.2 kg / 66.7 lbs	
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 / 10 years			
Cooling method	Smart cooling			
Topology on AC / Battery side	Transformerless / Transformer			
Max. operating altitude (m)	4000, > 2000 Derating			
Noise emission (dB)	< 50			
Standard & Certification				
EN62109-1/-2, EN61000, EN50549-1/-10, UNE217001/UNE217002, G99, G100				