

HYBRID SERIES

Single-Phase

GEN-LB-EU 3-6K

- Single-phase power allocation in three-phase parallel operation
- Supports up to 6 units in parallel for on/off-grid
- Time of Use
- 24/7 real-time monitoring via free LUX app and web
- On/off-grid seamless switching under 20ms
- IP65 for indoor/outdoor installation
- Separate generator connection interface
- Intelligent generator control



Specification

INPUT (PV DC)	3K	3.6K	4K	4.6K	5K	6K
Max. PV array power(W)	6600	6600	7000		9000	
Rated PV input voltage(V)				360		
Number of independent MPPT inputs				2		
PV input voltage range(V)			100~530			
MPPT voltage range(V)			150~425			
Start-up voltage(V)			140			
Max. PV input current per MPPT(A)			18			
Max. PV short-circuit current input per MPPT(A)			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	80/80	80/80	96/96	105/120	125/140
Max. charge/discharge power(W)	3000	3600	4000	4600	5000	6000
Force wake up battery from PV function			YES			
Grid						
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				
UPS						
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%			
Efficiency						
MPPT efficiency			99.9%			
Max. efficiency			97.3%			
Max. charge efficiency			94.5%			
Max. discharge efficiency			94.5%			
Protection						
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			YES			
AC Surge protection Type III			YES			
General						
Dimensions(W*H*D)		487*455*211.7mm/19.2*17.9*8.3inch				
Weight(kg)		29kg/64lbs				
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 years				
Cooling method		Smart cooling				
Topology on AC side		Transformer-less				
Topology on Battery side		Transformer				
Altitude(m)		2000				
Noise emission(typical)		< 25				
DC connection(VP-D4/MC4(Optional))		MC4				
AC connector		YES				
Standard & Certification						
G99, G100, CEI 0-21, RD 1699, NTS, UNE 217001, NRS 097						