

HYBRID SERIES

Single-Phase

GEN-LB-EU 3-6K

- 2 MPPTs, Max. PV input 9 kW,
18A Max.PV input current per MPPT
- Max. charge and discharge current: 125/140A
- Support up to 10pcs in parallel for on/off grid
- Time of Use and weather optimization charge for e-bill reduction
- On/off grid seamless switching
- Separate port for
 - Generator connection
 - Auto generator control
 - Support generator exercise
 - Support generator boost function
 - Or smart load connection and auto control
 - Or AC coupling function



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/(1:1)		
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				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						