GBLL016-A

16 kWh $LiFePO_4$ Energy Storage Battery



KEY FEATURES 16 kWh rated energy

- $LiFePO_4$ chemistry
- IP65 • Up to 64 units in parallel
- > 8,000 cycles
- 10-year warranty
- CAN / RS485 / Wi-Fi

BATTERY PERFORMANCE

CELL TYPE :	$LiFePO_4$
RATED ENERGY :	16 kWh
RATED VOLTAGE :	51.2 V
RATED CAPACITY :	314 Ah
WORKING VOLTAGE RANGE :	43.2–58.4 V
AVAILABLE SOC RANGE:	0–100%
MAX. CHARGE CURRENT :	150 A (0.48C)
MAX. CONTINUOUS DISCHARGE CURRENT :	200 A (0.64C)
MAX. CHARGE / DISCHARGE POWER:	7.6 kW / 10 kW
PEAK DISCHARGE CURRENT / POWER :	210 A / 10.7 kW, 1 min.
MAX. PARALLEL QUANTITY :	64 sets; 1,028.9 kWh total

ENVIRONMENTAL

OPERATING TEMPERATURE — CHARGE :	−10°C TO 55°C (14°F TO 131°F)
OPERATING TEMPERATURE — DISCHARGE :	−15°C TO 55°C (5°F TO 131°F)
STORAGE TEMPERATURE :	−15°C TO 55°C (5°F TO 131°F)
WORKING HUMIDITY :	5–95% RH, NON-CONDENSING
MAXIMUM ALTITUDE :	≤3,000 M (9,843 FT)

MECHANICAL

DIMENSIONS (W × D × H) :	500 × 235 × 960 MM (19.69 × 9.25 × 37.80 IN)
WEIGHT:	~140 KG (~308.7 LB)
INSTALLATION METHODS:	FLOOR-STANDING
INGRESS PROTECTION:	IP65

COMMUNICATIONS & LIFE

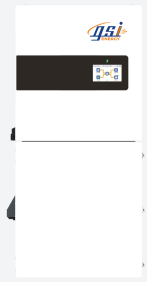
COMMUNICATION：	CAN / RS485 / WI-FI
CYCLE LIFE :	8,000 CYCLES
FIRE EXTINGUISHER IN PACK :	YES
HEATING FILM IN PACK :	YES
WARRANTY :	10 YEARS

CERTIFICATION

CERTIFICATIONS :	UL 1973 / UL 9540A / UN 38.3 / FCC

GIHL114P2-A

11.4 KW HYBRID INVERTER • SPLIT-PHASE • LV BATTERY



KEY FEATURES 3 MPPTs

- 15 kW max PV usable power
- 210 A battery charge/discharge
- 200 A grid bypass
- Whole-home backup
- IP65/NEMA 3R
- AFCI 2.0 & RSD

AC / SYSTEM DATA

MODEL:	GIHL114P2-A
NOMINAL AC OUTPUT POWER:	11,400 W
MAX. AC OUTPUT APPARENT POWER:	11,400 VA
PEAK OUTPUT APPARENT POWER:	150%, 10 S
MAX. AC OUTPUT CURRENT:	47.5 A
MAX. GRID PASSTHROUGH CURRENT:	200 A
NOMINAL GRID VOLTAGE : 120/240 V SPLIT-PHASE L1,L2,N ; 120/208 V 2/3-PHASE	
NOMINAL GRID FREQUENCY:	60 HZ ; 55-65 HZ (ADJUSTABLE)
POWER FACTOR:	0.8 LEADING TO 0.8 LAGGING
MAX EFFICENCY:	98.00 %
THDI :	<3% @ RATED POWER

PV INPUT

MAX. PV USABLE POWER:	15,000 W
MAX. PV VOLTAGE:	600 V
START-UP VOLTAGE:	90 V
MPPT OPERATING VOLTAGE RANGE:	70–540 V
INDEPENDENT MPPT INPUTS/ INPUTS PER MPPT: 3/2	
MAX. INPUT CURRENT / MPPT:	30 A / 22 A / 22 A
MAX. SHORT-CIRCUIT CURRENT / MPPT :	40 A / 30 A / 30 A

BATTERY

BATTERY TYPE:	LITHIUM-ION / LEAD-ACID
NOMINAL BATTERY VOLTAGE:	51.2 V
BATTERY VOLTAGE RANGE:	40–64 V
MAX. CHARGE / DISCHARGE CURRENT:	210 A
MAX. CHARGE / DISCHARGE POWER:	10,000 W

PROTECTION

PROTECTION CATEGORY:	CLASS I
PV REVERSE POLARITY PROTECTION:	YES
DC SWITCH:	YES
RAPID SHUTDOWN MONITORING:	YES
INSULATION / LEAKAGE PROTECTION:	YES / YES
AFCI 2.0 PROTECTION:	YES
DC/AC OVERVOLTAGE / AC SHORT CIRCUIT:	YES / YES
ANTI-ISLANDING / AC OVERCURRENT:	YES / YES
BATTERY BREAKER:	INTEGRATED (300 A)
LOAD BREAKER:	INTEGRATED (2 × 200 A)

BACKUP / LOAD

NOMINAL OUTPUT POWER:	11,400 W
MAX. AC OUTPUT APPARENT POWER:	11,400 VA
NOMINAL OUTPUT CURRENT:	47.5 A
NOMINAL OUTPUT VOLTAGE:	120/240 V SPLIT-PHASE; 120/208 V 2/3-PHASE
NOMINAL OUTPUT FREQUENCY:	60 HZ
TRANSFER TIME:	<10 MS TYPICAL
THDV :	<3% @ 100% RATED LOAD
GEN PORT:	MAX. 100 A / 24,000 W

GENERAL & MECHANICAL

OPERATING TEMPERATURE:	–25°C TO 60°C (–13°F TO 140°F); >45°C / 113°F DERATING
RELATIVE HUMIDITY:	0–100%
MAX ELEVATION:	4000 M (13,123 FT) (>;2000 M / 6,562 FT DERATING)
COOLING:	SMART COOLING FAN ASSISTED
ENCLOSURE TYPE:	NEMA 3R
CUSTOMER INTERFACE:	LED OR 4.3-INCH TOUCH LCD OR MOBILE APP
COMMUNICATIONS:	CAN (BMS), RS485 (METER), RS485, CAN (PARALLEL); WI-FI/LAN
DIMENSIONS (W × H × D):	448 X 901 X 270 MM (17.6 X 35.5 X 10.6 IN)
WEIGHT:	47 KG (103 LBS)
MOUNTING:	WALL BRACKET
WARRANTY:	10 YEARS

CERTIFICATION

CERTIFICATIONS :	UL 1741 / CSA C22.2 / UL 1699B; FCC PART 15 CLASS B, UL 1741SA, UL 1741SB, UL 1741 PCS CRD, IEEE 1547, HECO SRD 2.0, CSIP

NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT ADVANCE NOTICE. OUTPUT VOLTAGE AND FREQUENCY RANGES MAY VARY BY APPLICABLE GRID CODE.