

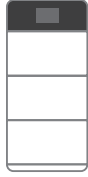



# GPOWER-B


## Low Voltage Stackble System



System Schematic				
Product Model	GPOWER-B			
Battery type	LFP			
Single module capacity	5.12kWh			
Modules number	1	2	3	4
Total capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Nominal capacity	100Ah	200Ah	300Ah	400Ah
Standard voltage	51.2v			
Working voltage	44.8-58.4v			
Max. Discharge Current [A]	100A	200A	250A	250A
Rated charge/discharge current	20A	40A	60A	80A
IP rating	IP65			
Ambient temperature range	-20°C ~ 60°C			
Allowable relative humidity range	5~95%			
Max. operating altitude	2000 m			
Weight	59kg	105kg	150kg	195kg
Dimension (W*D*H)	W678*D220*H671mm	W678*D220*H991mm	W678*D220*H1312mm	W678*D220*H1632mm
Installation	Floor stand			
Cooling	Natural			
Display	LED indicators			
Communication	CAN/RS485/RS232			
Certificates	IEC62619, TUV, ROHS, UN38.3, CEI, MSDS, CE Standard			


### Key characteristic

- Availabe kWh: 5.12kWh,10.24kWh,15.36kWh,20.48kWh
- Suitable for both off-grid and hybrid inverters and protocol match well.
- Communication port: RS232/RS485/CAN
- Energy storage SAAS unified platform available , OTA upgrading and other maintenance function
- Bluetooth /WIFI remotely monitoring system
- Faulty battery module auto isolates to keep system operating Plug and play
- Elegant design , IP65
- Multi-level software and hardware protection
- Cycles: More than 6000 cycle life with 80% DOD
- Design Life >10 years @25°C
- Certificates: Comply with IEC62619, TUV, ROHS, UN38.3, CEI, VDE, MSDS,CE Standard.



**SMART**

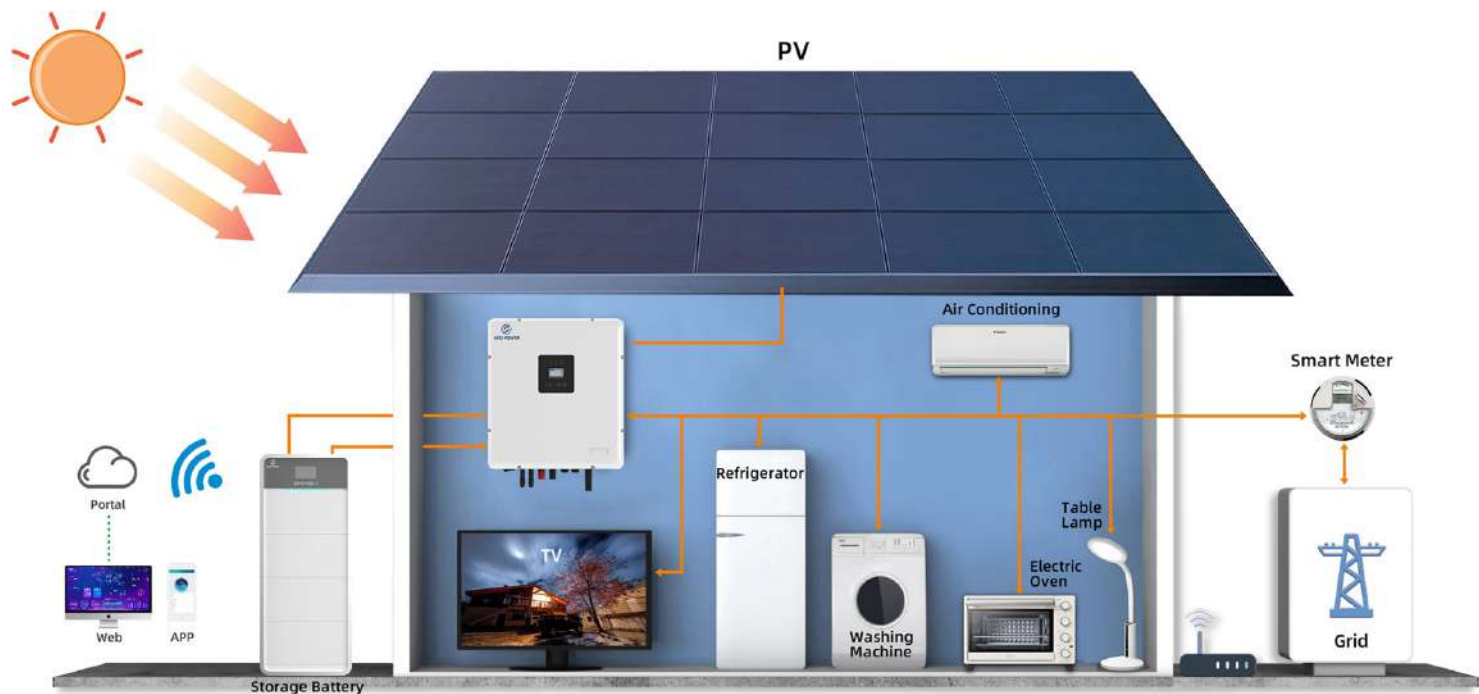
Cloud & APP Control  
Centralized Maintenance



**SAFETY**

Multiple Working Modes  
Built-in Protection Functions

### Home Battery Storage System



# ALL-IN-ONE

## Energy Storage System



### Key characteristic

- Availabe kWh : 5.12kWh,10.24kWh,15.36kWh,20.48kWh
- Convenient: Heat stimulation for the best layout
- Quiet,Less than 25 DB,No Noise pollution
- Flexbile design: IP65
- Adaptive:self-power,backup ,and load shifting modes
- Battery charging and discharging time can be flexbibly set based on your need







#### SMART

Cloud & APP Control  
Centralized Maintenance



#### SAFETY

Multiple Working Modes  
Built-in Protection Functions

System Parameters				
System Schematic				
	6000W			
	1	2	3	4
	5.12kW h	10.24kW h	15.36kW h	20.48kW h
	IP65			
Ambient temperature range	-20℃~60℃			
Allowable relative humidity range	5%~95%			
Max. operating altitude	2000m			
Weight	74.5kg	125.5kg	176.5kg	228.5kg
Dimension (W*D*H)	W 678*D220*H1172mm	W 678*D220*H1492mm	W 678*D220*H1832mm	W 678*D220*H991mm W 678*D220*H1492mm
Display	LCD & APP+Bluetooth			
Communication	RS485/CAN/WiFi, Optional: Ethernet/4G			
Product ordering model	[GPOWER6KW Inverter Module] + N * [GPOWER-B Battery Module]			
Inverter Module				
Model	GPOWER6KW			
Nominal battery voltage	51.2V			
Max. charging/discharging current	100A			
Max. PV input power	8000W			
Max. input voltage	600V			
MPPT operating voltage range	120~550V			
Number of MPPTs	2			
Max. input current per MPPT	13A/13A			
Rated grid voltage	L/N/PE, 230V, 50Hz/60Hz			
Grid voltage range	170Vac-290Vac			
Rated AC power	6000W			
Max. AC power output to utility grid	6000VA			
Rated voltage, frequency (off-grid)	220/230/240V, 50/60Hz			
Max. apparent power (off-grid)	6000W			
Peak output power, duration (off-grid)	9000W, 60S			
Max efficiency of solar Inverter	98.0%			
European efficiency of solar Inverter	97.1%			
Topology	Transformerless			
Dimension (W*D*H)	W 678*D220*H750mm			
Weight	22.5kg			
Battery Module				
Model	GPOWER-B			
Battery type	LFP			
Battery module energy	5.12kW h			
Standard charge and discharge current	50A			
Topology	Transformer isolation			
Dimension (W*D*H)	W 678*D220*H320mm			
Weight	45kg			

# I SPOWER-B


## High Voltage Stackable System




Parameters							
Battery module quantity							
Modules Number	2	3	4	5	6	7	8
Battery module energy (kWh)	5.12						
Cell Type	LFP						
Capacity (Ah)	100Ah						
Total Energy (kWh)	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Nominal Voltage (V)	102.4	153.6	204.8	256	307.2	358.4	409.6
Voltage Range (V)	89.6~116.8	134.4~175.2	179.2~233.6	224~292	268.8~350.4	313.6~358.4	408.8~467.2
Weight(kg)	110	155	200	245	290	335	380
Dimension (WxDxH)mm	600×390×552	600×390×716	600×390×880	600×390×1044	600×390×1208	600×390×1372	600×390×1536
Nominal Charge/Discharge Current(A)	20						
Max.Charge/Dicharge Current(A)	75						
Expected Lifetime	10 years						
Charge Temperature Range(°C)	0~+55						
Discharge Temperature Range( °C)	-20~+60						
Communication	RS232 / RS485 / CAN						
Enclosure Protection Rating	IP65						

### Key characteristic

- Flexible capacity options 10.24kWh to 40.96kwh
- Smart remotely firmware upgrade
- Long cycles and safety cobalt free Lifepo4 battery
- Easy installation with modular and stackable design
- Programmable charge and discharge control
- Multi-level software and hardware protection
- Elegant design, IP Rate: IP65, Plug and Play
- Cycles: More than 6000 cycle life with 80% DOD
- Design Life >10 years @25°C
- Certificates:CE, TUV, ROHS, UN38.3, IEC62619, MSDS

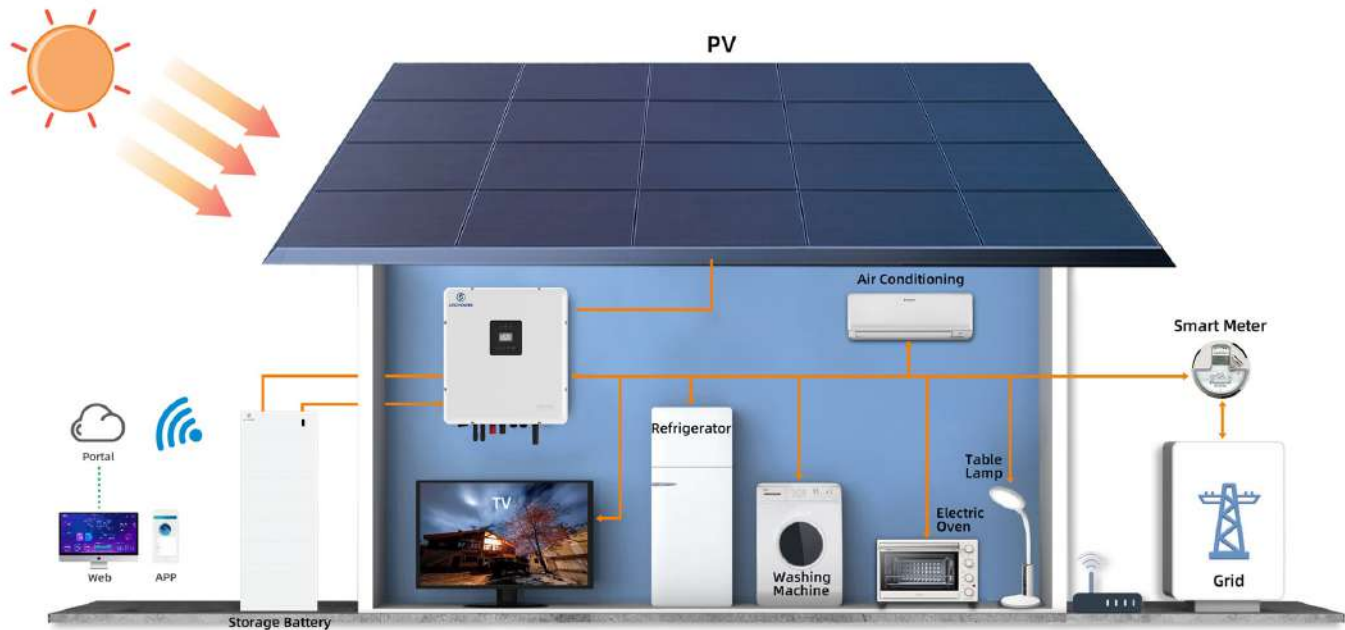


**SMART**  
Cloud & APP Control  
Centralized Maintenance



**SAFETY**  
Multiple Working Modes  
Built-in Protection Functions

### Home Battery Storage System



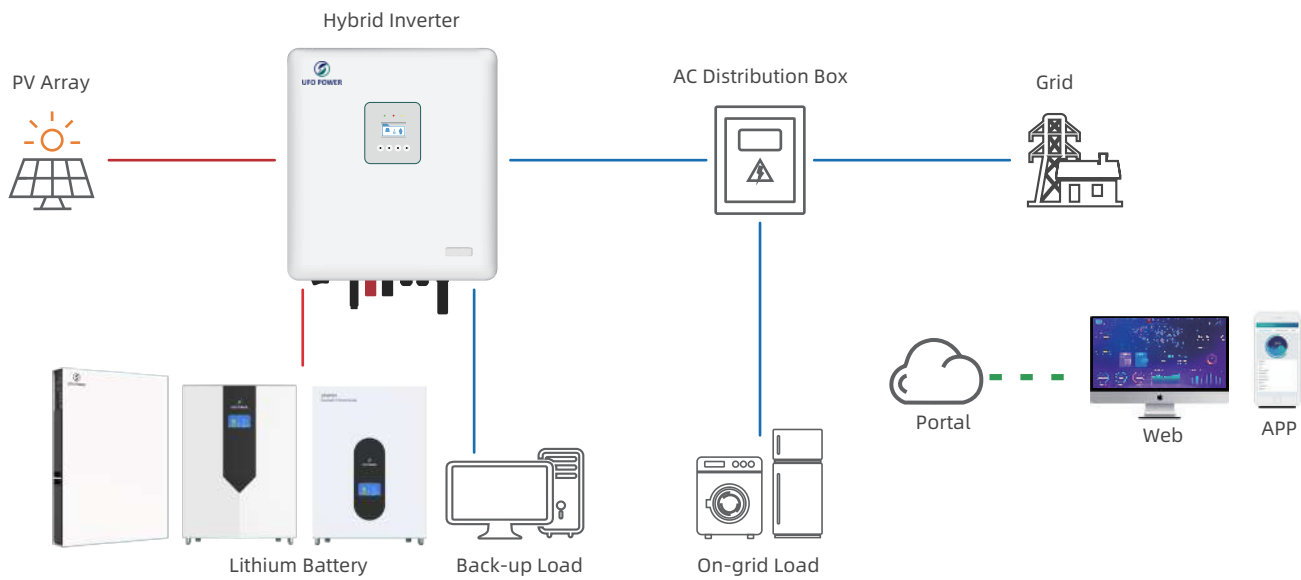


# Energy Storage Battery

## Wall Mount Battery Pack 48V/51.2V



- Available kWh: 4.8kWh/5.12kWh, 7.2kWh/7.68kWh, 9.6kWh/10.24kWh, expandable capability, support parallel
- Suitable for both off-grid and hybrid inverters, and protocol match well
- HMI Touch LCD Display: show the battery voltage, SOC/SOH status, and working status of each cell
- LCD touch screen: choose different main inverter brands easily
- Easy installation
- Remotely monitored by Bluetooth/Wifi/GSM system and managed by APP to check the battery working status
- Cycles: More than 6000 cycle life with 80% DOD
- Design Life >10 years @25°C
- Certificates: IEC62619, TUV, ROHS, UN38.3, MSDS, CE



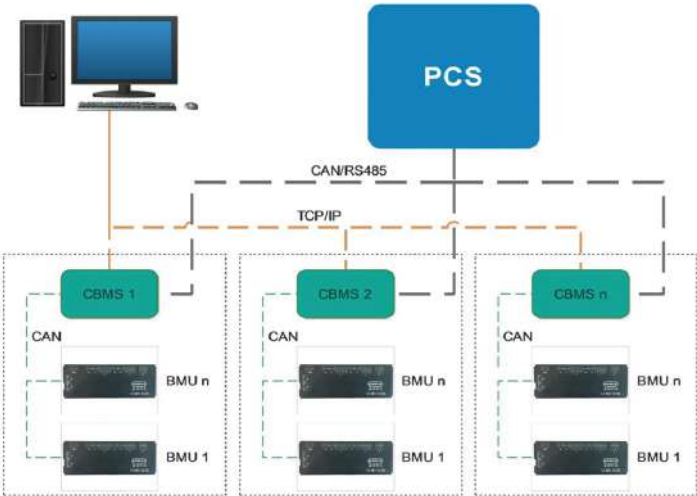
	TPOWER	APOWER	OPOWER
Standard volatage (V)	48V	48V	48V
Rated Capacity (Ah)	160/200AH	100/150/200AH	100/150/200AH
Rated Energy (kWh)	7.68/9.6	4.8/7.2/9.6	4.8/7.2/9.6
Working voltage (V)	42V~54.7V	42V~54.7V	42V~54.7V
Recommend Charge Current [A]	0.2C	0.2C	0.2C
Max Number of Parrallel	15	15	15
Max Charge Current(A)	100A	100A	100A
Max Discharge Current (A)	100A	100A	100A
Dimension:W*D*H (mm)	600×110×830	485×250×650	485×250×650
Weight (kg)	≈80/94kg	≈49/77/95kg	≈49/77/95kg
Communication	CAN/ RS485/ RS232/ Dry Contact		
Display	LCD		
IP rating	22		
Compatible inverter	Gospower, Sacolor, Growatt, Sofar, Lux power, Goodwe, Deye, Solis, Sorotech, SMA, Victron, Sol-ark, Megarevo, Voltronic, SAJ, Mppsolar, Amensloar .....		
Humidity (%)	85%R.H.		
Charge Temperature	0°C~55°C		
Discharge Temperature	-20°C~60°C		
Storage Temperature Range	Less than 12 months : -10~35°C Less than 3 months: -10~45°C Less than 7 day : -20~65°C		
Cycle Life	More than 6000 Cycles @25°C 0.2C 80%DOD		
Design Life (Years)	10		
Certification	CE, UL, TUV, CEI, VDE, IEC62619, ROHS, UN38.3, MSDS		

# High Voltage DC Lithium LiFePo4 Battery System



## Key characteristic

- UL1642 & TUV Certified Battery Cells
- Zero maintenance, no need for maintenance, saves opex for user
- Easy Implementation, no need to assign extra man-power to install
- Lighter battery weight, Far more lighter than equivalent lead acid batteries
- Advanced BMS, Integrated advanced BMS with smart user friendly features
- Widely voltage range 96V 120V 192V 384V... ..
- Low self-discharge rate: < 3% monthly



## Key characteristic

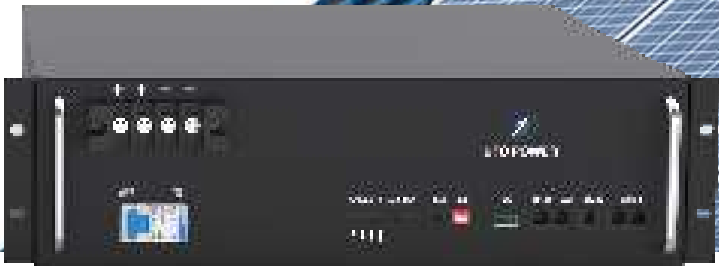
The Machine Parameters	
Battery type	Lithium Iron Phosphate Battery (LiFePO4)
Nominal Voltage [V]	384V
Nominal Capacity [Ah]	50Ah
Rated Reserved Energy	19.2kWh
Size ( The width is suitable for 19-inch Cabinets and the height is 47U)	400(D)*442(W)*132(H)mm
Weight	248kg
Charge Cut-off Voltage	427~438V
Discharge Cut-off Voltage	300~324V
Number of Battery Module Per Cabinet	8pcs
Number of Battery Cells Per Module	10pcs
Operation Temperature Range (Charge)	0°C~+55°C
Operation Temperature Range (Discharge)	-20°C~+60°C
Protection Function	Over-current/ Over-voltage/ Under-voltage/ Short Circuit/ Temperature Protection
Communication Interface	RS485, CAN
48V 50Ah Battery Module Parameters	
Configuration	15S1P
Nominal Capacity	50Ah
Rated Voltage	48V
Internal Resistance	≤ 40mΩ
Maximum Charging Current	50A
Maximum Discharging Current	50A
Charge Cut-off Voltage	54.75V
Discharge Cut-off Voltage	37.5V
Operation Temperature Range (Charge)	0°C~+55°C
Operation Temperature Range (Discharge)	-20°C~+60°C
Storage Temperature	0°C~+40°C
Storage Humidity	≤ 90%
CBMS Main Technical Parameters	
Communication Interface with PCS	RS485/CAN
Communication Interface with BMU	CAN
Maximum Quantity of BMUs	13
Power	24VDC (18V~28V)
Net Weight	17kg

Accept customized model

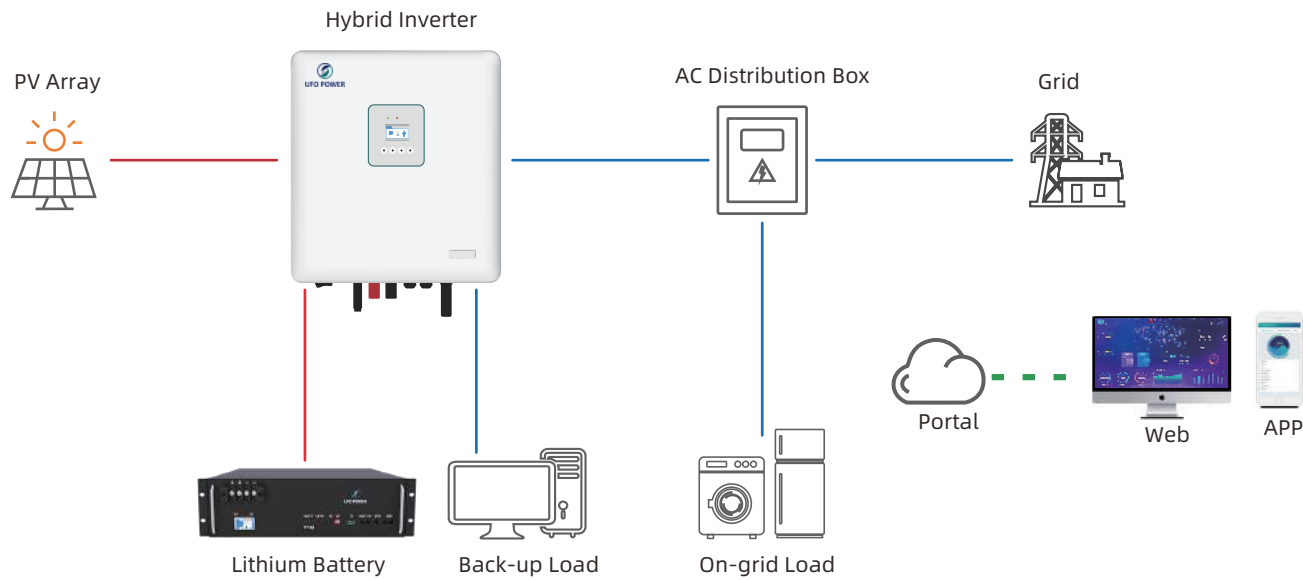


# Rack Model

## Low Voltage System



- Available kwh: 4.8kwh /5.12Kwh, 7.2kwh/7.68kwh, 9.6kwh/10.24kwh, expandable capability, support parallel
- Suitable for both off-grid and hybrid inverters, and protocol match well
- Communication port: RS232/RS485/CAN
- LCD Display: show the battery voltage, SOC/SOH status, and working status of each cell
- Easy installation
- Remotely monitored by Bluetooth/Wifi/GPRS/4G system and managed by APP to check the battery working status
- Cycles: More than 6000 cycle life with 80% DOD
- Design Life >10 years @25°C
- Certificates: IEC62619, TUV, ROHS, UN38.3, MSDS, CE



UFO LifePO4 BATTERY SPECIFICATIONS			
BASIC SPECIFICATION			
Nominal Energy (kWh)	4.8	7.2	9.6
Nominal Voltage [V]	48	48	48
Nominal Capacity [Ah]	100	150	200
Width [mm]	442	440	440
Height [mm]	130	265	265
Depth [mm]	450	520	520
Net Weight [Kg]	42	70	82
IP Level	22	22	22
ELECTRICAL SPECIFICATION			
Output Power [kW]	4.8		
Voltage Window [V]	42~54.7		
Charge Voltage [V]	51.7~54.7		
Max. Charge / Discharge Current [A]	100		
Recommend Charge Current [A]	0.2C 20	0.2C 30	0.2C 40
Charge Mode	CC-CV		
Scalability [Kwh]	15 PCS Up to 72/ 108/ 144		
OTHERS			
Communication	CAN/ RS485/ RS232/ Dry Contact		
Charge Temperature	0 - 55 °C		
Discharge Temperature	-20 - 60 °C		
Temperature & Period Storage	12 Months @-10~35°C	3 Months @-10~45°C	7 day @-20~65°C
Designed Life	10+Years		
Cycle Life	More than 6000 Cycles @25°C 0.2C 80%DOD		
Certification Standard	CE, TUV, ROHS, IEC62619, UN38.3, MSDS		

51.2V 16s available

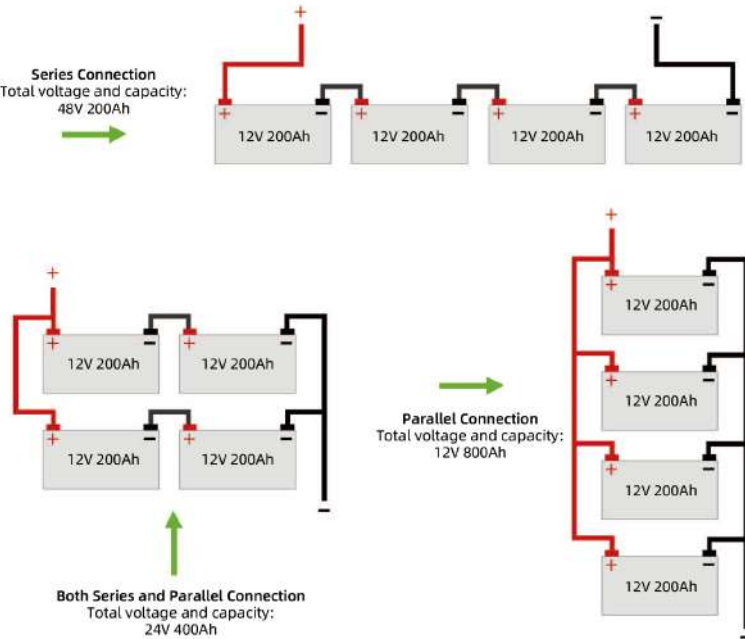


# 12V/24V

## Lead Acid Replacement Battery



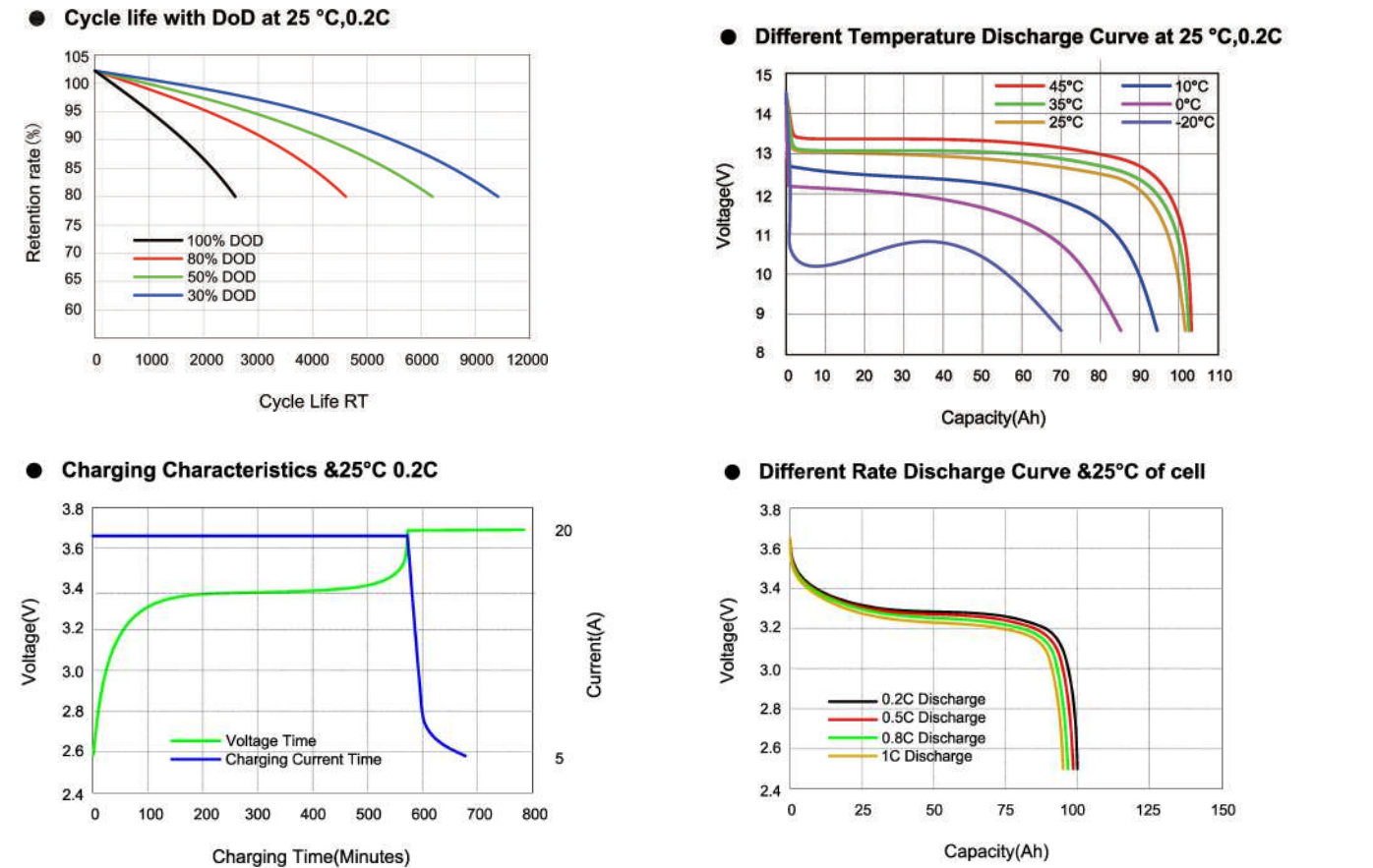
- Build -in BMS with overcurrent, short circuit, thermal protection and balance function
- 100% deep cycle with fast charge and discharge efficiency
- Over current short-circuit thermal protection and balance function
- Bluetooth function to connect battery anytime anywhere
- Elite prismatic lifepo4 battery with high charge or discharge currents
- Wide operating temperature range, excellent high and low temperature performance
- Can be customized



## Key characteristic

Model				
U120500	12.8V	50Ah	50Ah	229*138*208mm
U1201000	12.8V	100Ah	100Ah	260*168*209mm
U1201500	12.8V	150Ah	100Ah	333*176*217mm
U1202000	12.8V	200Ah	100Ah	532*207*215mm
U-P2450-R -P	24V	50Ah	50Ah	260*168*209mm
U-P24100-R -P	24V	100Ah	100Ah	532*207*215mm
U-P24150-R -P	24V	150Ah	100Ah	520*269*220mm
U-P24200-R -P	24V	200Ah	100Ah	410*310*265mm

LiFePo4 12V/24V lithium ion battery with Bluetooth or without Bluetooth function. has higher energy density, longer life, and lighter weight.It is cost effective in a long term consideration, gradually replacing lead-acid batteries. Low maintenance batteries with stable chemistry, wide operating temperature range, excellent high and low temperature performance. It is widely used for RV/solar system/yacht/golf carts storage and car etc.





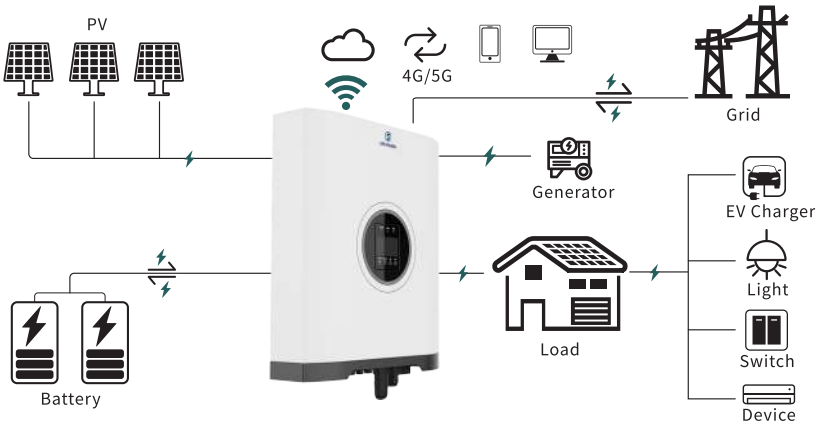
# Hybrid Inverter

6-10kW Three Phase Inverter



- Integrated PV and storage system model, high self-use efficiency, with UPS Uninterrupted Power Supply.
- UPS function, supporting three-phase imbalance, on/off gird switch within 10ms.
- Wide PV voltage input range 180V-950V, wide batteries voltage range 180V-550V.
- IP65 protection, high electricity quality , no interference with other equipment, low radiation.
- Small size, light and easy to install, support GPRS/WIF-I/RS485/USB upgrade.
- Max Efficiency 98.2%, smart MPPT, tracing efficiency up to 99.99%.

## Connection



Technical Data		U-EST06KH	U-EST08KH	U-EST10KH
PV Input Data	Max. Input Power	9000W	12000W	15000W
	Max. Input Voltage		1000V	
	MPPT Operating Voltage Range		180- 950V	
	Start-up Voltage		120V	
	Max. Input Current		15A/15A	
	Max. Short Circuit Current		18A/18A	
	Number of MPPT Trackers		2	
	Number of Strings per MPPT		1/1	
Battery Input Data	Battery Voltage Range		180- 550V	
	Max.Charge/Discharge Current		25A/30A	
	Max.Charge/Discharge Power	6000W/6000W	8000W/8000W	10000W/10000W
	Battery Type		Li-ion/Lead-acid	
AC Output Data(On-grid)	Nominal Output Power	6000W	8000W	10000W
	Max. Apparent Power	6000VA	8000VA	10000VA
	Nominal Output Voltage		380V, 3L/N/PE	
	Nominal Output Frequency		50Hz/60Hz	
	Max. Output Current	10A	12A	15A
	Power Factor		~1 (0.8 lead to 0.8 lag can be set)	
	Total Harmonic Distortion		<3%	
AC Output Data(Back-up)	Nominal Output Power	6000W	8000W	10000W
	Max. Apparent Power	6000VA	8000VA	10000VA
	Nominal Output Voltage		380V, 3L/N/PE	
	Nominal Output Frequency		50Hz /60Hz	
	Max. Output Current	10A	12A	15A
Efficiency	Max. Efficiency		98.20%	
	European Efficiency		97.30%	
Protection	AC Overcurrent Protection		Integrated	
	Ground Fault Protection		Integrated	
	Power Network Monitoring		Integrated	
	Residual Current Monitoring		Integrated	
General Data	Operating Temperature Range		-25℃~60℃ (>45℃ derating)	
	Altitude		<4000m	
	NoiseEmission		<40dB	
	Topology		Transformerless isolation	
	Cooling		Natural convection	
	Ingress Protection Rating		IP65	
	Relative Humidity		0~ 100%, without condensation	
	DC Connector Type		MC /Amphenol/Phoenix	
	AC Connector Type		Plug-in Connector	
	Display		LCD	
	Cloud Communication		RS485 (WiFi/4G/GPRS optional)	
	BMS Communication Mode		CAN	
	Communication with Meter		RS485	
	Installation		Wall-mounted	
	Self-consumption at Night		<10W	
	Dimension (W*D*H)		505*220*570mm	
	Weight		29kg	
Certification	Safety Standards		IEC62109-1/-2	
	EMC Standards		EN61000-6-1/-2/-3, IEC61000	
	On-grid Standard	AS4777.2:2020, NRS097-2-1:2017, PN-EN50549-1:2019, VDE-AR-N 4105:2018, EN50549-1 :2019+AC:2019-4		



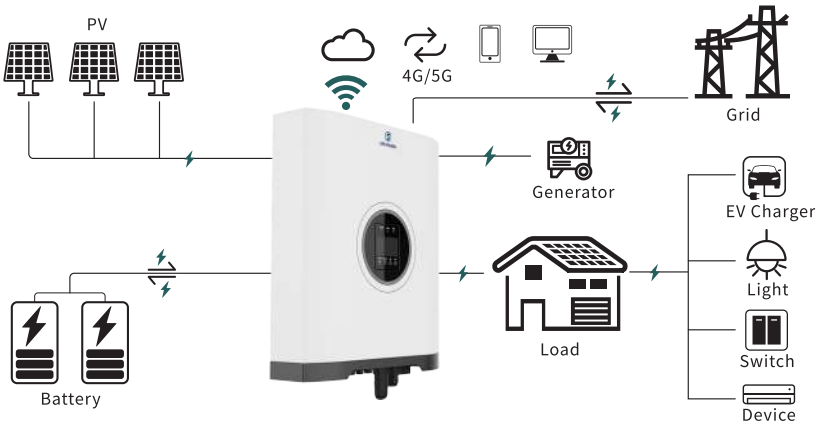
# Hybrid Inverter

## 12-20kW Three Phase Inverter



- Integrate PV and storage system modem, support multiple batteries, integrate with EMS Smart energy management systems;
- UPS function, support three-phase imbalance, on/off gird switch within 10ms;
- Wide PV voltage input range 180V-950V, wide batteries voltage range 180V-700V;
- IP65 protection, aluminum housing, Built- in lightning protection, high-precision leakage protection;
- Ultra silent, flexible communications. support remote/lo-cal USB upgrade;
- Support bifacial panels, max DC current 12.5A, max PV input power up to 1.5 X rated power.

### Connection



Model		U-EST12KH	U-EST15KH	U-EST17KH	U-EST20KH
PV Input Data	Max. InputPower	18000W	22500W	25500W	30000W
	Max. InputVoltage	1000V			
	MPPT OperatingVoltage Range	180- 950V			
	Start-up Voltage	120V			
	Max. InputCurrent	15N15A	15N28A	28N28A	
	Max. Short Circuit Current	18N18A	18N32A	32N32A	
	Number of MPPT Trackers	2	2	2	
	Number of Strings per MPPT	1/1	1/2	2/2	
Battery Input Data	BatteryVoltageRange	180-700V			
	Max.Charge/Discharge Current	50N50A			
	Max.Charge/Discharge Power	12kW/12kW	15kW/15kW	17kW/17kW	20kW/20kW
	Battery Type	Li-ion/Lead-acid			
AC Output Data(On-grid)	NominalOutputPower	12000W	15000W	17000W	20000W
	Max. ApparentPower	12000VA	15000VA	17000VA	20000VA
	NominalOutputVoltage	380V, 3L/N/PE			
	NominalOutputFrequency	50Hz/60Hz			
	Max. Output Current	18A	22A	25A	31A
	Power Factor	- 1 ( 0.8 lead to 0.8 lagcan be set)			
	Total Harmonic Distortion	<3%			
AC Output Data(Back-up)	NominalOutputPower	12000W	15000W	17000W	20000W
	Max. ApparentPower	12000VA	15000VA	17000VA	20000VA
	NominalOutputVoltage	380V, 3L/N/PE			
	NominalOutputFrequency	50Hz/60Hz			
	Max. Output Current	18A	22A	25A	31A
Efficiency	Max. Efficiency	98.40%			
	European Efficiency	97.50%			
Protection	AC Overcurrent Protection	Integrated			
	Ground Fault Protection	Integrated			
	Power Network Monitoring	Integrated			
	Residual Current Monitoring	Integrated			
General Data	OperatingTemperature Range	- 25°C-60°C (>45°C derating)			
	Altitude	<4000m			
	Noise Emission	<40dB			
	Topology	Transformerless isolation			
	Cooling	Intelligent fan			
	Ingress Protection Rating	IP65			
	Relative Humidity	0-100%, without condensation			
	DC Connector Type	MC/Amphenol/Phoenix			
	AC Connector Type	Plug-in Connector			
	Display	LCD			
	Cloud Communication	RS485 (WiFi/4G/GPRS optional)			
	BMS CommunicationMode	CAN			
	CommunicationwithMeter	RS485			
	Installation	Wall-mounted			
	Self-consumption at Night	<10W			
	Dimension ( W*D*H )	505*220*630mm			
	Weight	34kg		36kg	
Certification	Safety Standards	IEC62109-1/-2			
	EMC Strandards	EN61000-6-1/-2/-3 , IEC61000			
	On-grid Standard	AS4777.2:2020 , NRS097-2-1:2017 , PN-EN50549-1:2019, VDE-AR-N 4105:2018,EN50549-1:2019+AC:2019-4			



# Hybrid Inverter



## GPEX Single Phase Inverter

EU Standard Single Phase



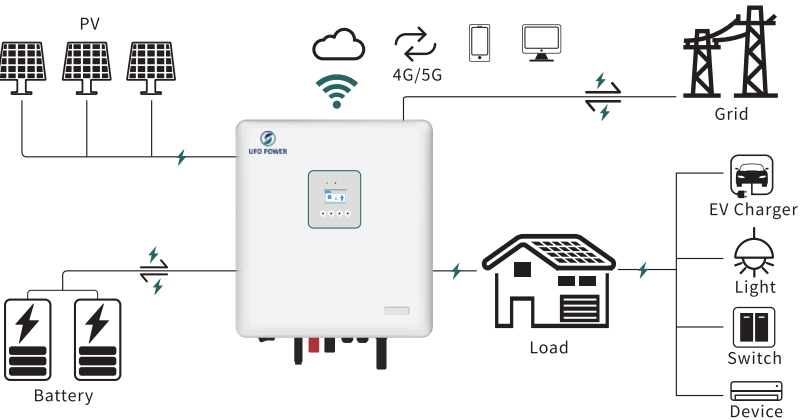
HIGH EFFICIENCY  
HIGH RELIABILITY  
INTELLIGENT MAINTENANCE



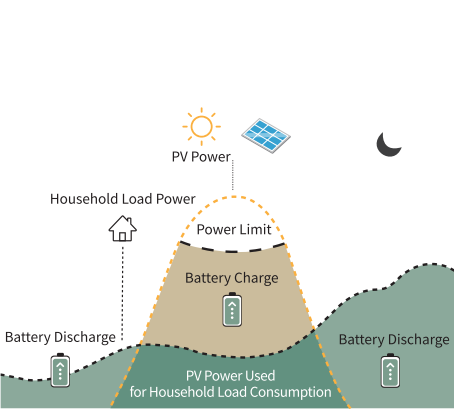
Grid Code

EN 50549-1 VDE 4105 CEI 0-21 NTs type A

### Connection



### Working Mode



		GPEX-3K6L1	GPEX-5KL1	GPEX-6KL1
DC Input (PV)	Recommended max. PV input power	4800W	8000W	8000W
	Rated input voltage	380V	380V	380V
	MPPT operating voltage range	120-550V	120-550V	120-550V
	Number of MPPT	1	2	2
	Max. number of input strings per MPPT	1	1	1
	Max. input current per MPPT	13A	13/13A	13/13A
	Max. short-circuit current per MPPT	20A	20A	20A
AC output (on-grid)	Rated output power	3600W	5000W	6000W
	Rated output current	15.7A	21.7A	26.1A
	Rated grid voltage	230V	230V	230V
	Rated grid frequency	50/60Hz	50/60Hz	50/60Hz
	THDi	<3%	<3%	<3%
	Power factor	-0.8~+0.8	-0.8~+0.8	-0.8~+0.8
Battery parameters	Battery type	SLA & LFP	SLA & LFP	SLA & LFP
	Battery voltage range	40-60V	40-60V	40-60V
	Max. charge/discharge current	50A	100A	100A
	BMS communication mode	485;CAN	485;CAN	485;CAN
AC output (off-grid)	Rated output power	3600W	5000W	6000W
	Rated output current	15.7A	21.7A	26.1A
	Rated output voltage	230V	230V	230V
	Rated output frequency	50/60Hz	50/60Hz	50/60Hz
	Peak output apparent power, time	3960VA	5500VA	6600VA
	THDv (@ linear load)	<3%	<3%	<3%
	Switching time	<10ms	<10ms	<10ms
Efficiency	Max. MPPT efficiency	99.90%	99.90%	99.90%
	Max. efficiency	97.20%	98.00%	98.00%
	European efficiency	96.40%	97.10%	97.10%
	Max. efficiency of charging/discharging [1]	94.00%	94.00%	94.00%
Protection	Inner protection	✓ DC switch    ✓ PV reverse connection protection    ✓ Battery reverse connection protection ✓ Output short-circuit protection    ✓ Output overvoltage protection ✓ Insulation impedance detection    ✓ Residual current detection    ✓ Anti-island protection		
	Surge protection	PV: Type III, AC: Type III		
	IP	IP65	IP65	IP65
General parameters	Operating temperature range	-25~60°C	-25~60°C	-25~60°C
	Relative humidity range	0~95%	0~95%	0~95%
	Installation method	Wall mounted	Wall mounted	Wall mounted
	Cooling mode	Natural cooling	Natural cooling	Natural cooling
	Communication	Wi-Fi;R485;CAN;GPRS	Wi-Fi;R485;CAN;GPRS	Wi-Fi;R485;CAN;GPRS
	Display	LCD;APP	LCD;APP	LCD;APP
MECHANICAL SPECIFICATIONS	Inverter dimensions (W*H*D) (mm)	535*485*198.5	535*485*198.5	535*485*198.5
	Inverter weight (kg)	27.5Kg	29Kg	29Kg
	Shipping dimensions (W*H*D) (mm)	715*565*331	715*565*331	715*565*331
	Shipping weight (kg)	29Kg	30.5Kg	30.5Kg



# Split Phase Inverter

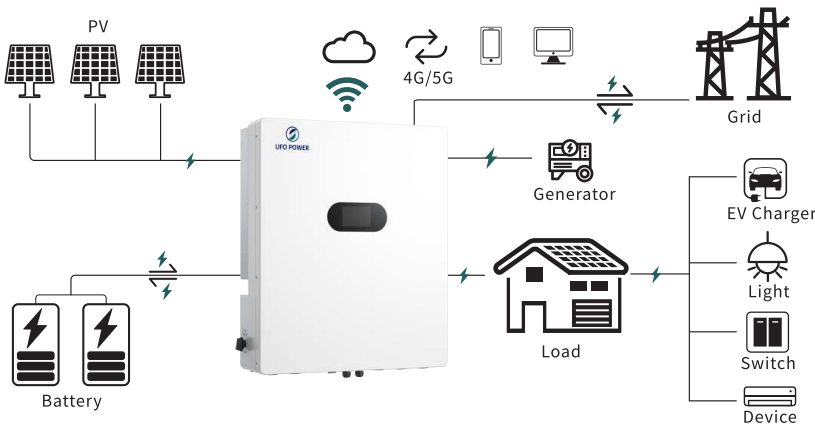


US Standard Split-phase

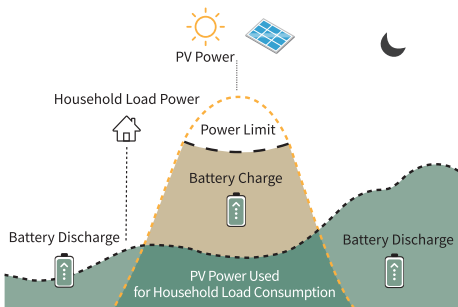
## SPLIT PHASE GENERATOR PORT+ INTEGRATION



### Connection



### Working Mode



型号		GPEX-10KH2	GPEX-12KH2	GPEX-15KH2
DC Input (PV)	Recommended max. PV input power	14.4KW	18KW	24KW
	Rated input voltage	384V		
	MPPT operating voltage range	120-550V		
	Number of MPPT	4		
	Max. number of input strings per MPPT	1	2	2
	Max. input current per MPPT	15.5A	27A	27A
	Max. short-circuit current per MPPT	20A	40A	40A
AC output (on-grid)	Rated output power	10kW	12kW	15kW
	Rated output current	41.6A	50A	62.5A
	Rated grid voltage	240/120V	240/120V	240/120V
	Rated grid frequency	60HZ	60HZ	60HZ
	THDi	<3%	<3%	<3%
	Power factor	±0.8	±0.8	±0.8
Battery parameters	Battery type	LFP	LFP	LFP
	Battery voltage range	75-480V		
	Max. charge/discharge current	75A		
	BMS communication mode	CAN/485		
AC output (Off-grid)	Rated output power	10kW	12kW	15kW
	Rated output current	41.6A	50A	62.5A
	Rated output voltage	240/120V	240/120V	240/120V
	Rated output frequency	60HZ	60HZ	60HZ
	Peak output apparent power, time	15KVA,10S	18KVA,10S	22.5KVA,10S
	THDv (@ linear load)	<3%		
	Switching time	<10ms		
Efficiency	Max. MPPT efficiency	99.90%		
	Max. efficiency	98%		
	European efficiency	97.10%		
	Max. efficiency of charging/discharging	97%		
Protection	Inner protection	✓ DC switch   ✓ PV reverse connection protection   ✓ Battery reverse connection protection ✓ Output short-circuit protection   ✓ Output overvoltage protection ✓ Insulation impedance detection   ✓ Residual current detection   ✓ Anti-island protection		
	Surge protection	PV: Type III, AC: Type III		
	IP	IP65		
General parameters	Operating temperature range	-25~60°C		
	Relative humidity range	3000m		
	Installation method	Hanging		
	Cooling mode	Natural cooling		
	Communication	WIFI/BT/BLE		
	Display	LCD		
MECHANICAL SPECIFICATIONS	Inverter dimensions (W*H*D) (mm)	680*819.5*220mm		
	Inverter weight (kg)	56KG		
	Shipping dimensions (W*H*D) (mm)	770*1065*370mm		
	Shipping weight (kg)	65KG		

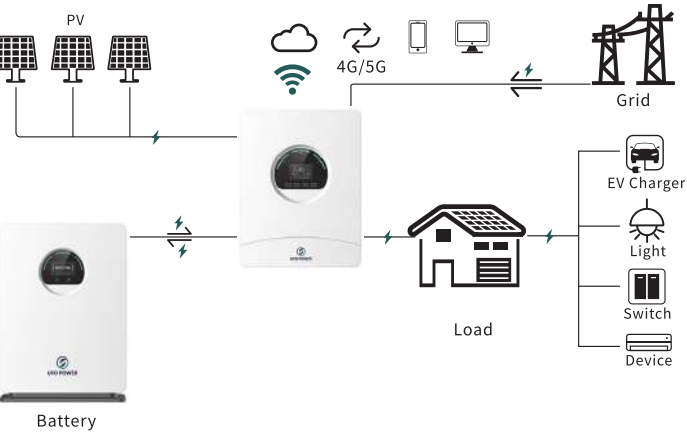


OFF GRID INVERTER

GPEO Single Phase Off-Grid Inverter  
Single Phase



Connection



Color Options



		GPEO-3K6L1	GPEO-6KL1
DC Input (PV)	Recommended max. PV input power	4000W	6000W
	Rated input voltage	380V	380V
	MPPT operating voltage range	85V-450V(@500V VOC)	85V-450V(@500V VOC)
	Number of MPPT	1	1
	Max number of input strings per MPPT	1	1
	Max input current per MPPT	27A	27A
	Max short-circuit current per MPPT	35A	35A
AC input	Max input power	6500W	11000W
	Max input current	30A	50A
	Rated grid voltage	220/230/240Vac	220/230/240Vac
	Rated grid frequency	50/60Hz	50/60Hz
	THDi	<3% (@100% Linear load)	<3% (@100% Linear load)
	Power factor	1	1
Battery parameters	Battery type	Lithium /Lead-acid	Lithium /Lead-acid
	Battery voltage range	20V~30V	40-60V
	Max. charge/discharge current	120A/150A	120A/125A
	BMS communication mode	RS485	RS485
AC output (off-grid)	Rated output power	3600W	6000W
	Rated output current	15.6A	26.1A
	Rated output voltage	220/230/240Vac	220/230/240Vac
	Frequency	50/60Hz	50/60Hz
	Surge power	7200VA 5s	7200VA 5s
	THDv (@ linear load)	<3%	<3%
	Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)	
Efficiency	Max. MPPT efficiency	99.90%	99.90%
	Peak efficiency	93.00%	93.00%
Protection	Inner protection	√ Output short circuit protection √ Output overvoltage protection	
	Surge protection	PV: Type III, AC: Type III	
	IP	IP54	IP54
General Parameters	Operating temperature range	-10°C ~ 50°C	-10°C ~ 50°C
	Relative humidity range	5%~95%	5%~95%
	Max. operating altitude	2000m	2000m
	Standby self-consumption [2]	<10W	<10W
	Installation method	Wall-mounted	Wall-mounted
	Cooling mode	Fan cooling	Fan cooling
	Communication	RS232/RS485/Dry contact	RS232/RS485/Dry contact/WI-FI
	Display	LCD	LCD
MECHANICAL SPECIFICATIONS	Inverter dimensions (W*H*D) (mm)	347*445*120	347*445*120
	Inverter weight (kg)	12.1	13.5
	Shipping dimensions (W*H*D) (mm)	465*560*195	465*560*195
	Shipping weight (kg)	13.5	15