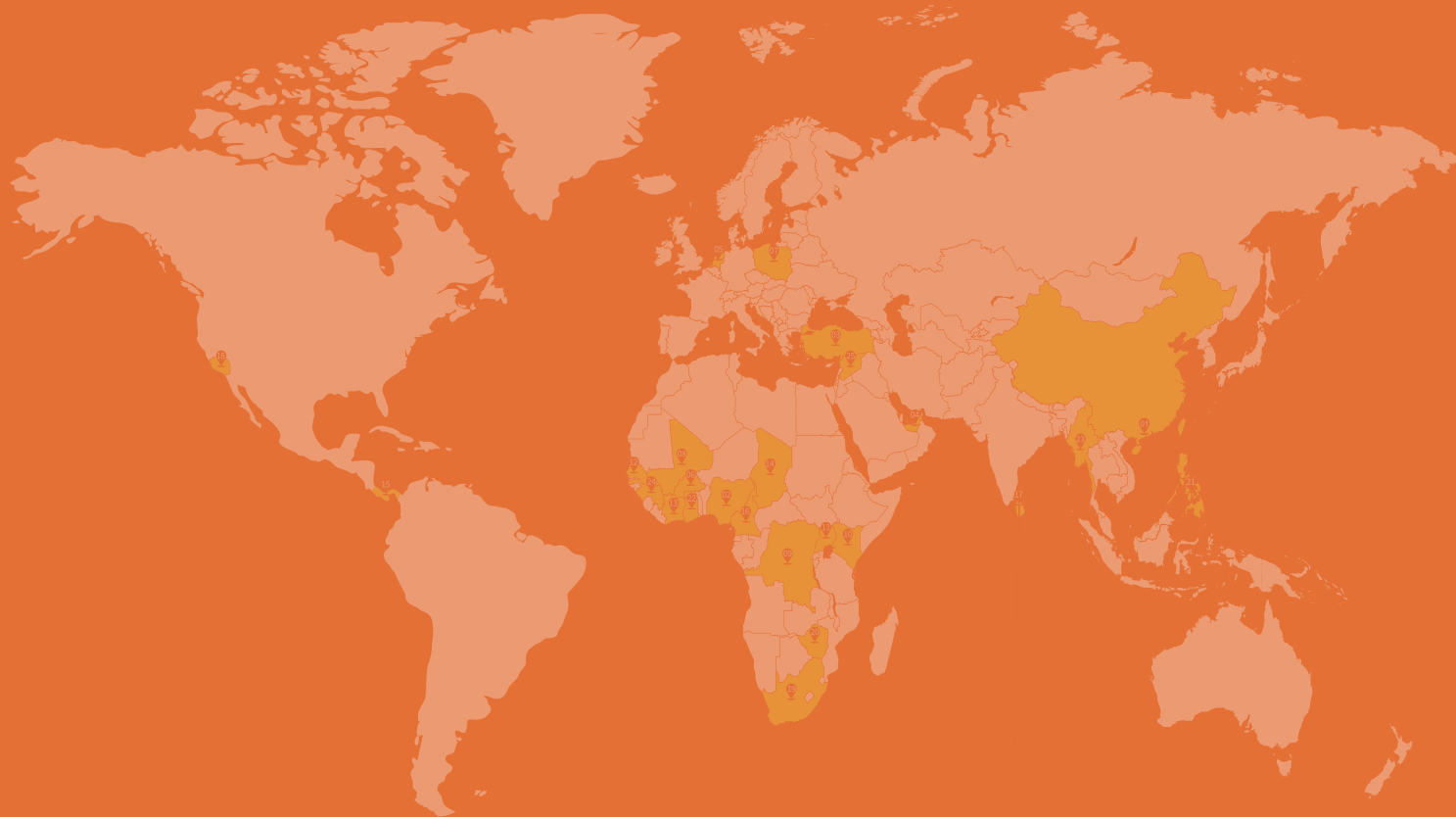
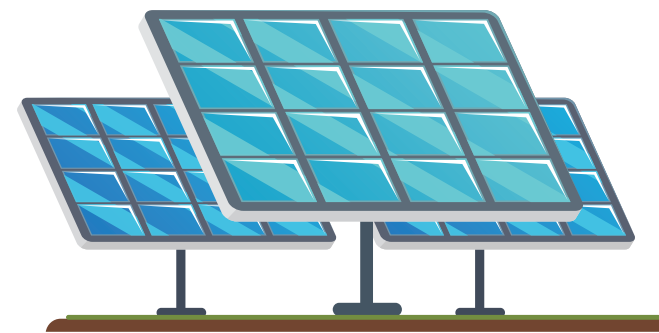




Make life full of hope



Solar photovoltaic inverter / Lithium battery **PRODUCT CATALOG**













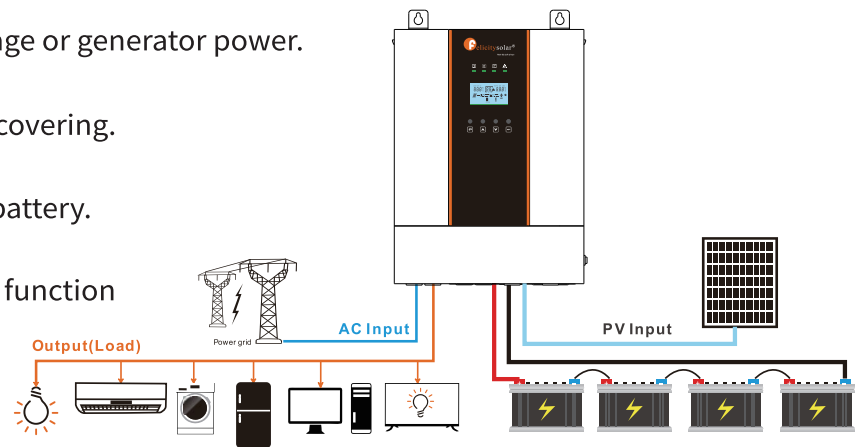
SOLAR INVERTER

IVEM SERIES



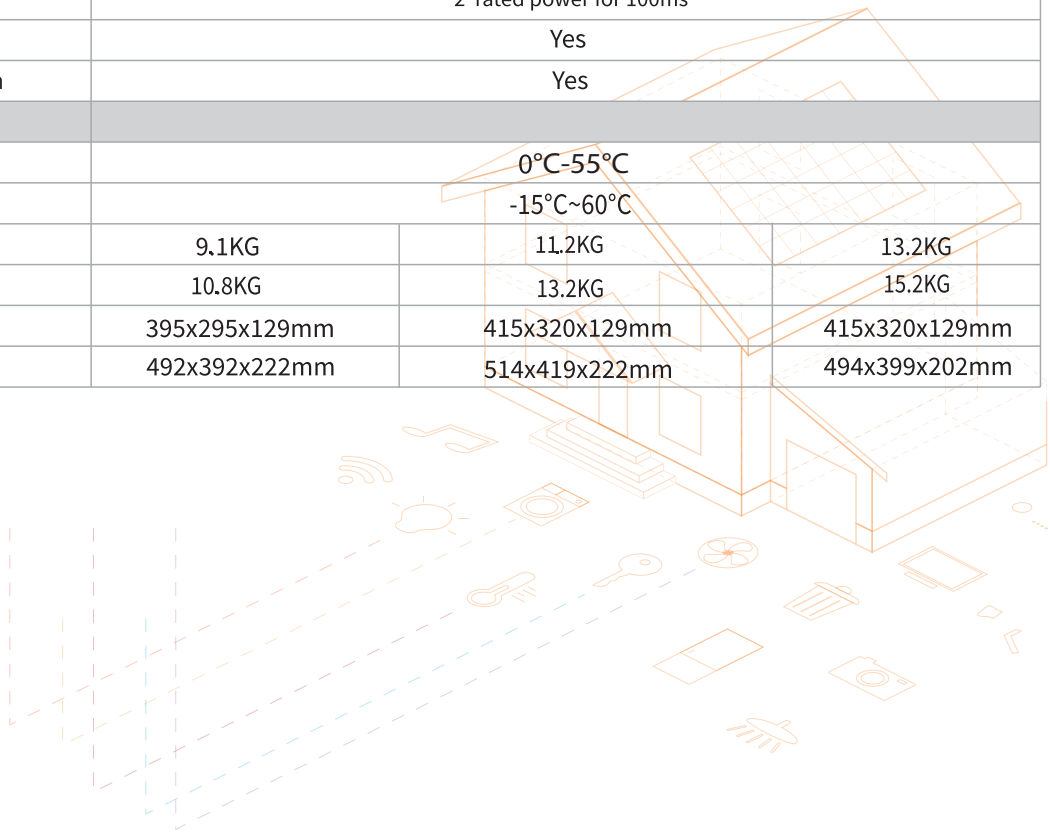
FEATURES

-  Pure sine wave inverter.
-  Built-in MPPT solar charge controller.
-  Configurable input voltage range for home appliances and personal computers via LCD setting.
-  Configurable battery charging current based on applications via LCD setting.
-  Configurable AC/Solar Charger Priority via the FSOLAR app.
-  Compatible to mains voltage or generator power.
-  Auto restart while AC is recovering.
-  Inverter running without battery.
-  Lithium battery activation function
-  Cold start function



PRODUCT PARAMETERS

Model	IVEM3024		IVEM5048		IVEM8048	
Rated Output Power(VA)	3000VA		5000VA		8000VA	
Rated Output Power(W)	3000W		5000W			
Nominal DC Input Voltage	24V		48V		48V	
Nominal Input Voltage	230Vac					
Max AC Input Voltage	280Vac					
Nominal Input Frequency	50Hz/60Hz (Auto Detection)					
Efficiency (Line Mode)	>95% (Rated R Load, Battery Full Charged)					
Pass Through Without Battery	Yes					
Utility Charge Mode Specifications						
Input Voltage Range	90-280Vac					
Over Charge Protection	Yes					
Solar Charging & Utility Charging						
Max. PV Open Circuit Voltage	500V					
PV Voltage Working Range	120V-500V					
Max. Input Power	4000W	6000W		8000W		
Max. Solar Charging Current	100A					
Max. Charging Current(PV+Grid)	100A					
Max. Input Current	15A	20A		40A		
Min. Startup Voltage	125V					
Inverter Mode Specifications						
Output Voltage Waveform	Pure sine wave					
Nominal Output Voltage	230Vac± 5%					
Nominal Output Frequency (Hz)	50±0.3Hz/60Hz±0.3Hz (Adjustable)					
Parallel Unit	—	12		12		
Peak Efficiency	93%					
Over-Load Protection (SMPS load)	5s@≥150% load: 10s@105%~150% load					
Surge Rating	2*rated power for 100ms					
Capable of Starting Electric	Yes					
Output Short Circuit Protection	Yes					
General Specifications						
Operating Temperature	0°C-55°C					
Range Storage Temperature	-15°C~60°C					
Net Weight(KG)	9.1KG	11.2KG		13.2KG		
Gross Weight(KG)	10.8KG	13.2KG		15.2KG		
Product Size (D*W*H)	395x295x129mm		415x320x129mm		415x320x129mm	
Package Dimension (D*W*H)	492x392x222mm		514x419x222mm		494x399x202mm	











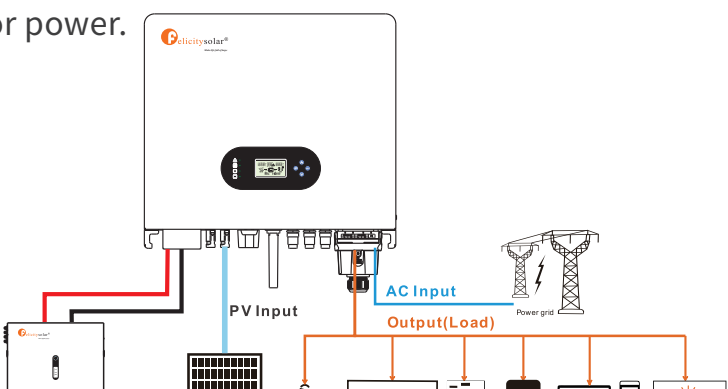


HYBRID SOLAR INVERTER

IVGM5048 SERIES



FEATURES

-  Pure sine wave inverter
 -  Built-in MPPT solar charge controller.
 -  Configurable input voltage range for home appliances and personal computers via LCD setting
 -  Configurable battery charging current based on applications via LCD setting.
 -  Configurable AC/Solar Charger priority via LCD setting
 -  Compatible to mains voltage or generator power.
 -  Auto restart while AC is recovering
 -  Inverter running without battery
 -  Lithium battery activation function.
 -  Cold start function.
- 

Model	IVGM5048
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	100A/100A
Max. charging and discharging power	5000W
Battery type	Li/Lead-acid
DC Input Data (PV side)	
Max. recommended PV power	6500W
Max. PV voltage	550V
Start voltage	130V
PV voltage range	90V~550V
MPPT voltage range	100V~500V
MPPT Voltage Range for Full Load	220V~500V
Nominal voltage	360V
Max. input current	15A/15A
Max. shorted current	18A/18A
Number of MPP trackers / strings per MPP tracker	2/1
Grid Data	
Nominal Input Voltage	230Vac
Input Voltage Range	184~264.5Vac*
Nominal grid frequency	50/60Hz*
Max. input current	40A
Max. Charge Current	100A
Max. AC output power	5000W
AC Output Rated Current	21.7A
Max. output current	25A
Max. Continuous AC Passthrough	30A
Power factor	>0.99
Displacement power factor	0.8leading~0.8lagging
THDI	<3%
AC Output Data(Back Up)	
Rated output power	5000VA/5000W
Max. Output current	30A
Rated AC output voltage	230Vac
Rated AC output frequency	50/60Hz
Efficiency	
Max. efficiency	97.6%
Euro efficiency	97.0%
MPPT efficiency	99.9%
Protection	
Output over current protection	Integrated
Output over power protection	Integrated
Output shorted protection	Integrated
Anti-islanding protection	Integrated
GFCI Protection	Integrated
Insulation Resistor Detection	Integrated
General Data	
Operating temperature range	-25°C~60°C,>45°C Derating
Protection degree	IP65
Relative humidity	100%
Cooling concept	Nature
Altitude	2000m
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor module	Wi-Fi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	5 years
Grid Regulation	VDE-AR-N 4105; G99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1;
Safety Regulation	IEC 62109-1/2, IEC 62040-1
EMC	EN61000-6-1, EN61000-6-3
Net Weight	34.2KG
Gross Weight	38.6KG
Product Dimension	493*530*203mm
Package Dimension	632*585*315mm










* According to local grid-connected standards

SOLAR INVERTER

T-REX-50KHP3G01 SERIES



FEATURES

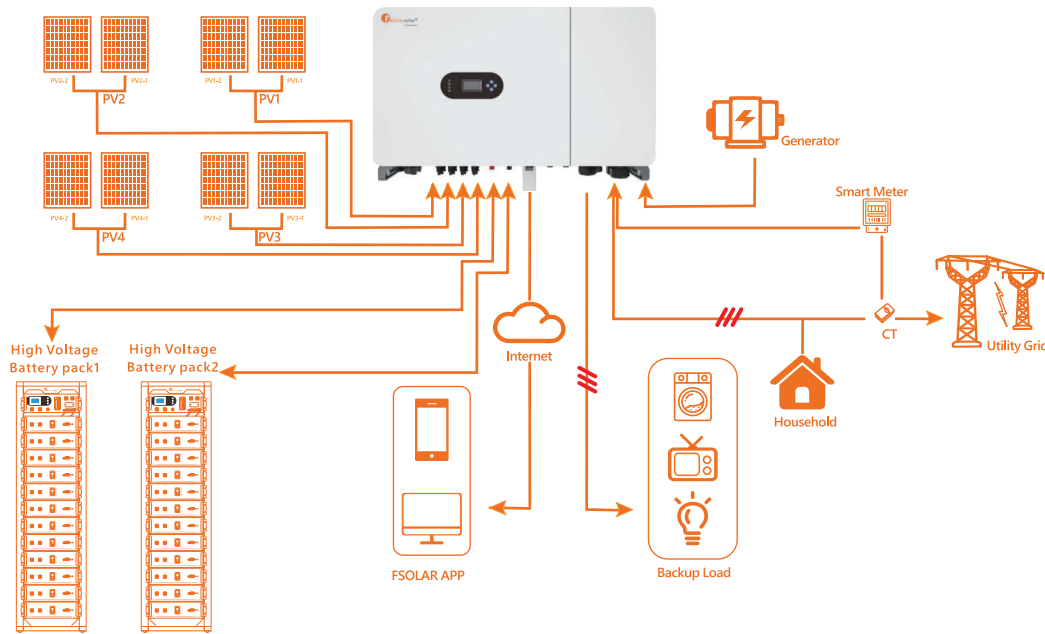
-  5 years warranty.
-  Support 4 MPPT / 8 strings input.
-  Support multiple operating modes.
-  Support up to 12 parallel connections.
-  Support remote monitoring and scheduling.
-  Support two independent high-voltage battery packs.
-  Outdoor wall mounted installation with IP65 protection level.
-  Support wide voltage input and external generator connection.
-  The maximum capacity supporting the battery pack is 2041.6 KWH.



PRODUCT PARAMETERS

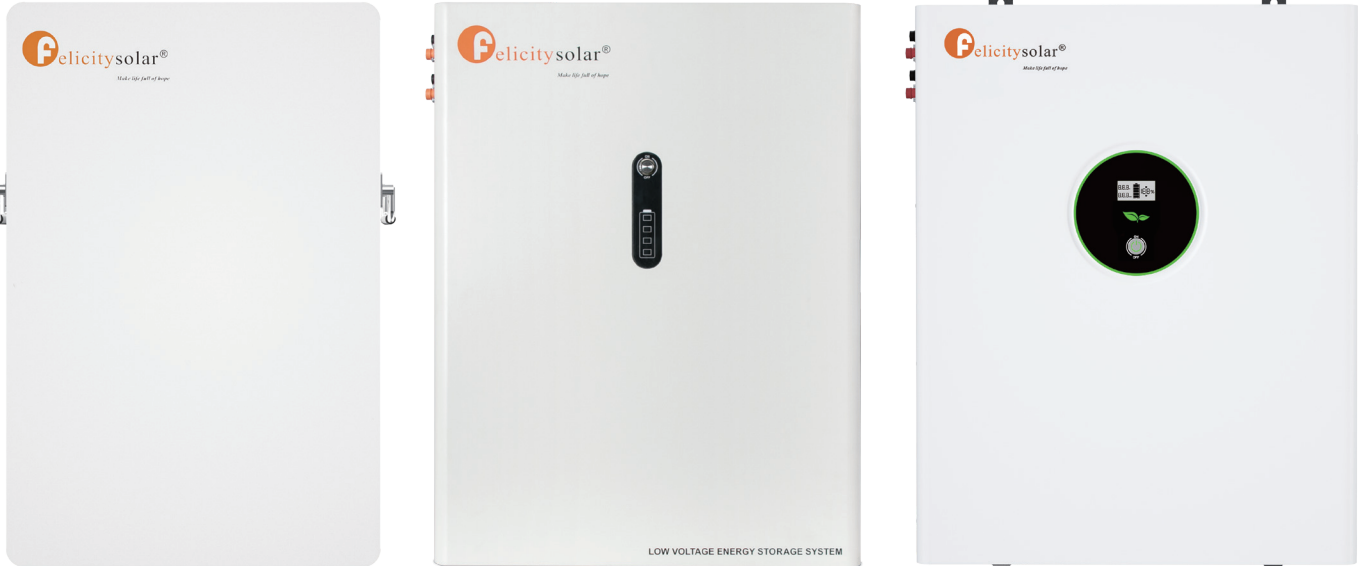
Model	T-REX-50KHP3G01
Battery Input Data	
Battery Voltage Range	160~800Vd.c
Max.Charging Current	50+50 (A)
Max. Discharging Current	50+50 (A)
Number of battery input	2
PV String Input Data	
Max.DC Input Power	65KW
Max.DC Input Voltage	1000Vd.c.
Min.DC Input Voltage	150Vd.c.
Start-up Voltage	250Vd.c.
Rated DC Input Voltage	600Vd.c.
MPPT Range	200~850Vd.c.
Full Load DC Voltage Range	450~850Vd.c.
PV Input Current	36+36+36+36(A)
Max.PV Isc	55+55+55+55(A)
No.of MPP Trackers	4
No.of Strings per MPP Tracker	2
AC Output Data	
Rated AC Output Power	50 kW
Max.AC Output Power	55 kW
AC Output Rated Current	72.5A
Max.AC Current	79.7A
Rated AC Voltage	220/380,230/400Vac(-20%~+15%)
AC Wiring Mode	L1/L2/L3/N/PE,230/400Vac
Rated AC Frequency	50/60 Hz (45~55Hz/55~65Hz)
THDI	<3%(At Rated Power)
Power Factor	0.8(leading) to 0.8(lagging)
General Data	
Ingress Protection	IP65
Operating Temperature Range	-25 to 60C(>50C derating)
Humidity	0~95%(No condensation)
Cooling	Smart cooling
Altitude	3000 m (> 2000 m derating)
Communication with BMS	CAN/RS485
Monitor module	WiFi/GPRS
Installation Style	Wall-mounted
Warranty	5 years
Net Weight(KG)	70KG
Product Dimension(MM)	940*595*340MM

Connection diagram









LIFEPO4 BATTERY SYSTEM

LPBA SERIES



FEATURES

-  High quality lithium iron phosphate battery.
-  ≥ 6000 times deep cycle charge and discharge.
-  Super long warranty: 7 years warranty.
-  Big capacity with small volume for household.
-  Support 12 pcs connected in parallel mode for expansion.
-  BMS High class of safety with built-in BMS protection.

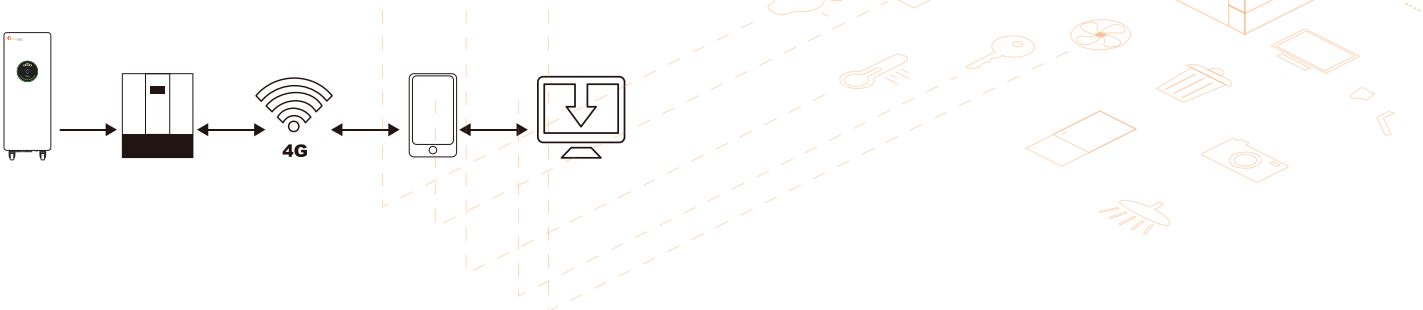


PRODUCT PARAMETERS

MODEL	LPBA48100-OL	LPBA48170	LPBA48200	LPBA48300
Total Capacity	5.12KWH	8.7KWH	10KWH	15KWH
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Voltage Range	48-57.6V	48-57.6V	48-57.6V	48-57.6V
Recommend Charge Cut-off Voltage	51.2V	57.6V	57.6V	57.6V
Recommend Discharge Cut-off Voltage	48V	48V	48V	48V
MAX. Charge & Discharge Current	50A@10S	120A@10S	150A@10S	200A@120S
Recommend Charge&Discharge Current	$\leq 50A$	$\leq 80A$	$\leq 120A$	$\leq 160A$
MAX. Output Power	5000W	6000W	7500W	10000W
Recommend Output Power	$\leq 2500W$	$\leq 4000W$	$\leq 6000W$	$\leq 8000W$
DOD	$\geq 95\%$			
Modules Connection	1-12 in parallel			
Communication	CAN&RS485			
Ingress Protection	IP21			
Cycle Life	$\geq 6000@25^{\circ}C, 80\%DOD$			
Working Temperature Range	Discharge:-20°C to + 60°C, Charge: +0°C to +55°C			
Net Weight(KG)	45.5KG	71KG	73.5KG	143KG
Gross Weight(KG)	61KG	89KG	100KG	180KG
Product Dimension(mm)	755x600x160 mm	755x600x160mm	755x650x135mm	750x300x1285mm
Package Dimension(mm)	855x700x330 mm	855x700x330 mm	850x745x335 mm	855x375x1355 mm

Convenient

CAN&RS485 Communication









LIFEPO4 BATTERY SYSTEM

LPBF SERIES

PRODUCT PARAMETERS

MODEL	LPBF24100-M	LPBF48100-M	LPBF48250
Usable Capacity	2.5KWH	5KWH	12.5KWH
Nominal Voltage	25.6V	51.2V	51.2V
Voltage Range	24-28.8V	48-57.6V	48-57.6V
Recommend Charge & Discharge Current	≤ 60A	≤ 50A	≤ 200A
MAX. Charge & Discharge Current	110A@120S	100A@30S	250A@120S
Recommend Output Power	1500W	2500W	10000W
MAX. Output Power	2750W	5000W	12500W
DOD	>95%		
Modules Connection	1~6 in parallel		
Communication	CAN&RS485		
Ingress Protection	IP21		
Cycle Life	≥ 6000@25°C, 80%DOD		
Working Temperature Range	Discharge: -20°C to + 65°C, Charge: + 0°C to + 55C		
Net Weight(KG)	22KG	40KG	154KG
Gross Weight(KG)	26KG	45KG	177KG
Product Dimension(mm)	345x430x195mm	630x540x260mm	615x350x955mm
Package Dimension(mm)	437x527x243 mm	642x552x278mm	715x450x1115mm

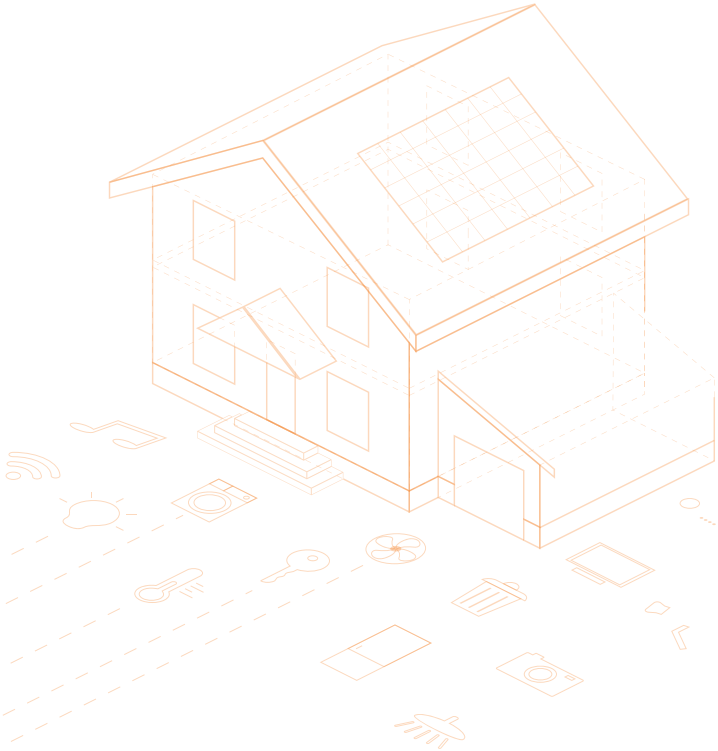
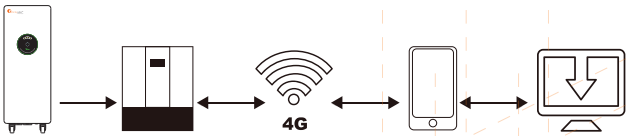
FEATURES

-  High quality lithium iron phosphate battery.
-  ≥6000 times deep cycle charge and discharge.
-  Super long warranty: 5 years warranty.
-  Big capacity with small volume for household.
-  Support 6 pcs connected in parallel mode for expansion.
-  BMS High class of safety with built-in BMS protection.



Convenient

CAN&RS485 Communication









LIFEPO4 1C BATTERY SYSTEM

LUX-E-48100LG03



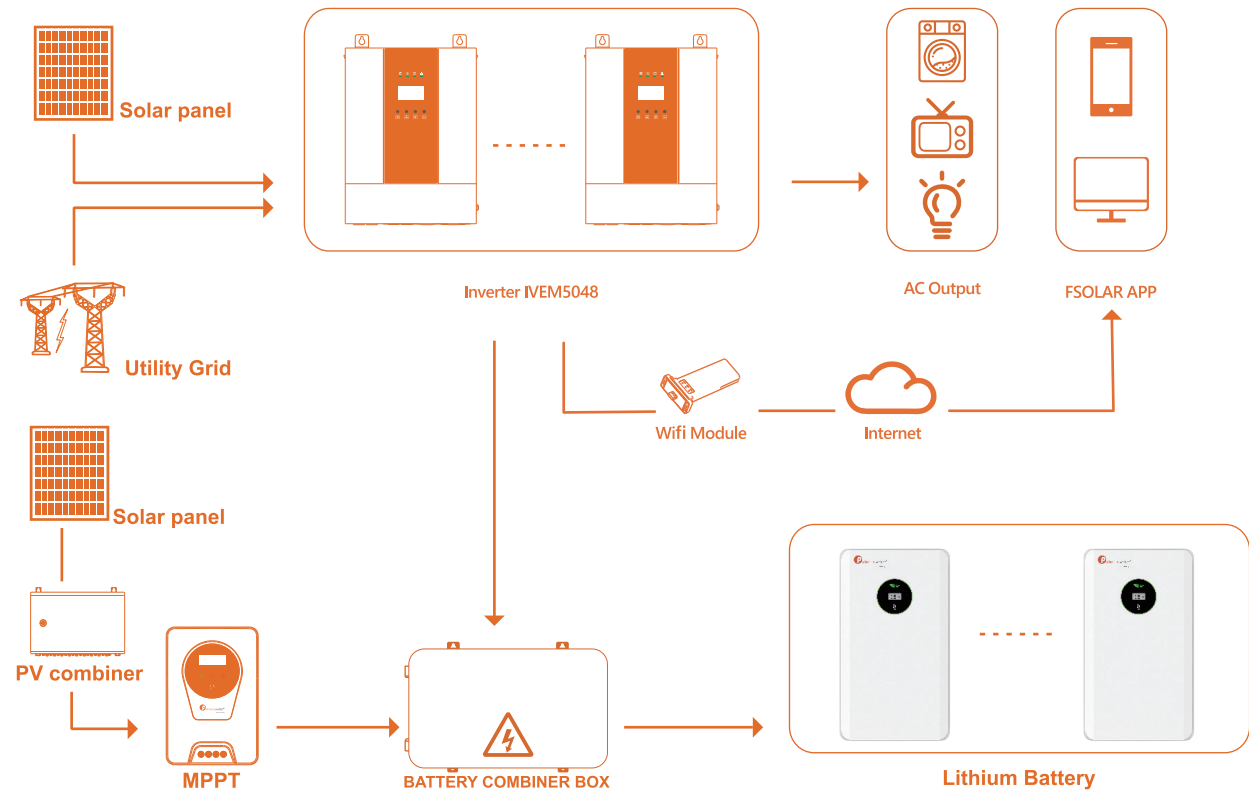
FEATURES

-  High quality lithium iron phosphate battery.
-  ≥ 6000 times deep cycle charge and discharge.
-  Super long warranty: 7 years warranty.
-  Big capacity with small volume for household
-  Support 12 pcs connected in parallel mode for expansion.
-  BMS High class of safety with built-in BMS protection

PRODUCT PARAMETERS

MODEL	LUX-E-48100LG03
Battery Type	LiFePO4
Energy	5.12kWh
Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8-57.6V
Recommend Charge/Discharge Current[1]	$\leq 100A$
Recommend Charge/Discharge Power[1]	$\leq 5,000W$
Maximum Charge/Discharge Current(15s)	150A
Maximum Charge/Discharge Power(15s)	7,500W
Depth of Discharge(DOD)	$\geq 95\%$
Scalability	Up to 12 units in parallel(61.44kWh)
Communication	RS485 / CAN
Protection Level	IP21
Cycle Life[2]	$\geq 6,000$ Cycles
Charging Temperature Range	0-55 °C
Discharging Temperature Range	-20-55 °C
Display	LCD+LED
Installation	Floor-Mounted
Protection	Built-in smart BMS, Breaker , Fuse
Warranty	7 Years
[1] Recommend charge/discharge current/power is affected by temperature and SOC.	
[2] Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.	

Connection diagram



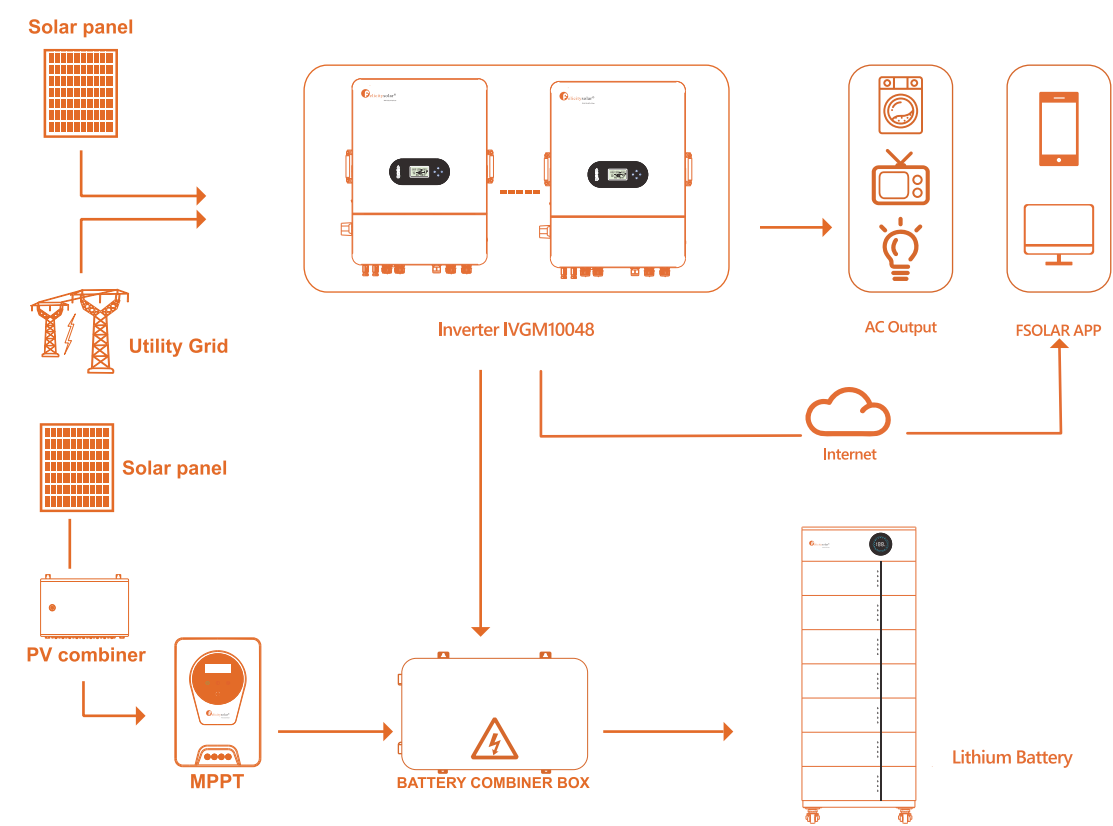
LIFEPO4 BATTERY SYSTEM

LUX-X-48100LG01







PRODUCT PARAMETERS

Model	LUX-X-48100LG01							
Battery type	LiFePO4							
Number of Battery Modules	1	2	3	4	5	6	7	8
Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Nominal Voltage	51.2V							
Operating Voltage	44.8-57.6V							
Recommend Charge/Discharge Current[1]	≤100A	≤200A	≤300A	≤400A	≤400A	≤400A	≤400A	≤400A
Recommend Charge/Discharge Power[1]	≤5KW	≤10KW	≤15KW	≤20KW	≤20KW	≤20KW	≤20KW	≤20KW
Maximum Charge/Discharge Current(15s)	150A	300A	450A	600A	600A	600A	600A	600A
Maximum Charge/Discharge Power(15s)	7,5KW	15KW	22.5KW	30KW	30KW	30KW	30KW	30KW
Depth of Discharge(DOD)	≥ 95%							
Scalability	Up to 8 units in parallel(40.96kWh)							
Communication	RS485 / CAN							
Protection Level	IP21							
Cycle Life[2]	≥ 6000 Cycles							
Charging Temperature Range	0-55 °C							
Discharging Temperature Range	-20-55 °C							
Display	LCD+LED							
Installation	Stacking							
Protection	Built-in smart BMS, Breaker, Fuse							
Warranty	7 Years							
Net Weight	53kg	99kg	145kg	191kg	237kg	283kg	329kg	375kg
Gross Weight	60kg	110kg	160kg	210kg	260kg	310kg	360kg	410kg
Product Dimension	600×450×(180N+120)mm							
Main control outer packaging size	712×562×333mm							
[1] Recommend charge/discharge current/power is affected by temperature and SOC.								
[2] Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.								

Connection diagram



FEATURES

-  High quality lithium iron phosphate battery.
-  ≥6000 times deep cycle charge and discharge.
-  Super long warranty: 7 years warranty.
-  Big capacity with small volume for household
-  Support 8 pcs connected in parallel mode for expansion.
-  High class of safety with built-in BMS protection

HIGH VOLTAGE BATTERY PACK LUX-X-96050 SERIES



FEATURES

-  Long Warranty:10 Years.
-  Flexible Installation:Stack-Mounted.
-  High Scalability:Capacity up to 983kwh.
-  LiFePO4:Higher safe performance and longer cycle life.
-  Wide Compatibility:Compatible with leading inverter brands.
-  Inverter interface protection: Over voltage, Over current, External Short Circuit, Reverse Polarity GroundFault, Over Temp, In rush current.
-  Battery Protection: Internal Short Circuit, Over voltage, over current, over temp, Under voltage
The batterysystem contains the following Interface to allow it to connect and operate efficiently.

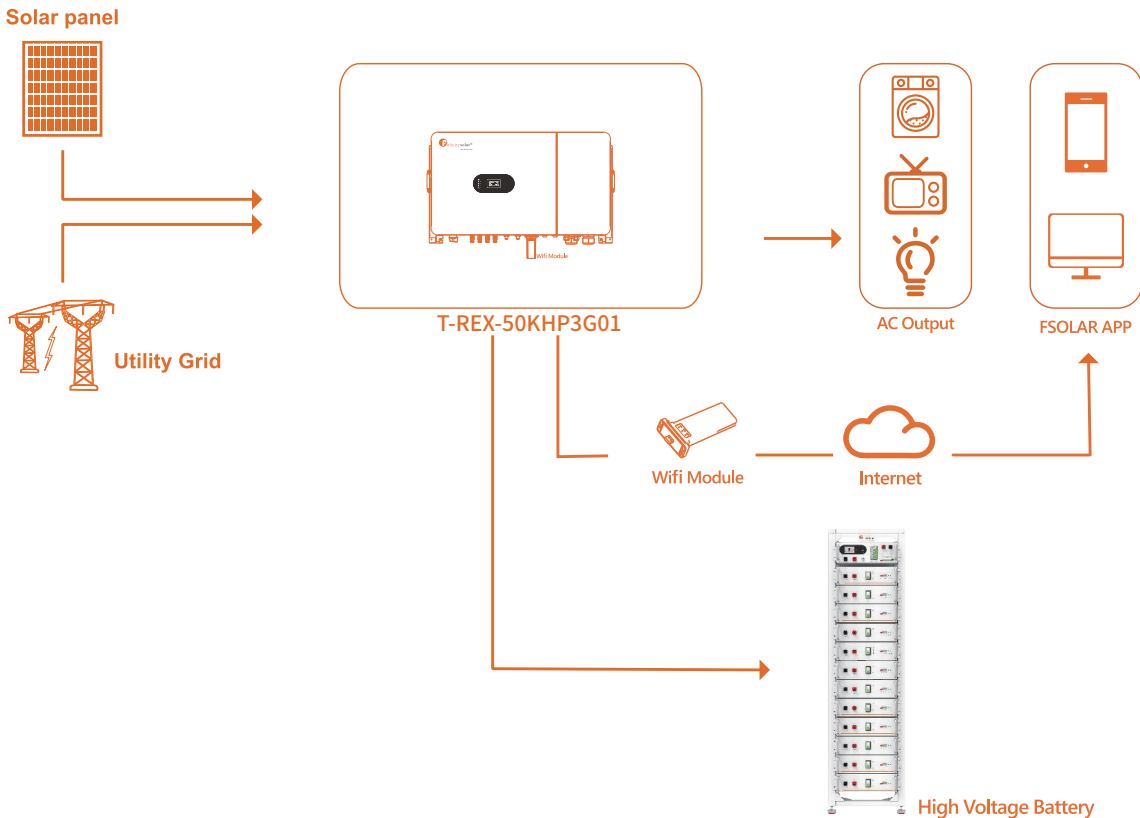
Specification

Model		LUX-X-96050		
Module Energy		5.12kWh		
Module Nominal Voltage		51.2V		
Module Capacity		100AH		
Number of Battery Modules (Optional)		4 (Min)	8	12
System Energy		20.48kWh	40.96kWh	61.44kWh
System Nominal Voltage		204.8V	409.6V	614.4V
System Operating Voltage		192-230.4V	384-460.8V	576-691.2V
Recommend Charge/Discharge Current		≤ 50A	≤ 50A	≤ 50A
Recommend Charge/Discharge Power		≤ 10000W	≤ 20000W	≤ 30000W
Max. Continuous Charge/Discharge Current[1]		≤ 100A	≤ 100A	≤ 100A
Max. Continuous Charge/Discharge Power[1]		≤ 20000W	≤ 40000W	≤ 60000W
Maximum Charge/Discharge Current(15s)		120A	120A	120A
Maximum Charge/Discharge Power(15s)		24000W	48000W	72000W
Battery Type		LiFePO4		
Depth of Discharge(DOD)		≥ 95%		
Scalability		Up to 16 units in parallel(983kWh)		
Communication		CAN&RS485		
Ingress Protection		IP21		
Cycle Life[2]		≥ 6000 Cycles		
Charging Temperature Range		0~55℃		
Discharging Temperature Range		-20~55℃		
Display		LED/LCD		
Installation		Stack-Mounted		
Protection		Built-in smart BMS, Breaker, Fuse		
Warranty		10 Years		
LUX-X-96050 HCG01	Net Weight(KG)	10.3KG		
	Gross Weight(KG)	16.7KG		
	Product Dimension(MM)	440*150*515MM		
	Package Dimension(MM)	597*562*269MM		
LUX-X-96050 HMG01	Net Weight(KG)	41.3KG		
	Gross Weight(KG)	44.35KG		
	Product Dimension(MM)	440*131*565MM		
	Package Dimension(MM)	687*562*244MM		

[1] Recommend charge/discharge current/power is affected by temperature and SOC.

[2] Test conditions: 0.2C Charging/Discharging @25℃,80% DOD




Connection diagram



BATTERY SYSTEM COMBINER BOX SYSTEM

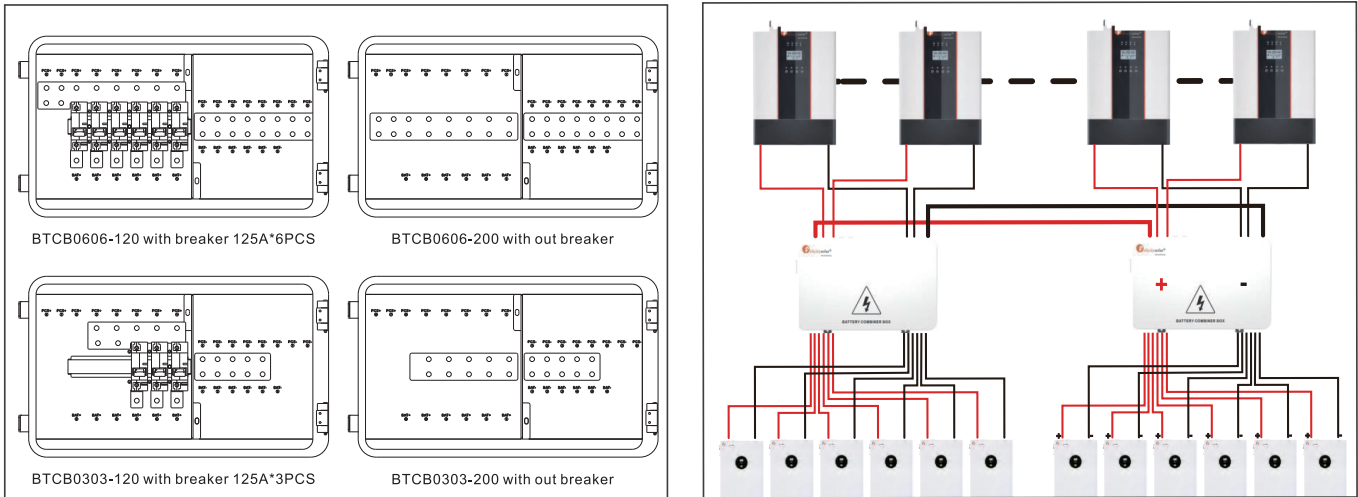


FEATURES

-  Higher current can be withstood.
-  Flow expansion capacity of circuit increased.
-  Convenient circuit wiring.

PRODUCT PARAMETERS

MODEL	BTCB0606-120	BTCB0606-200	BTCB0303-120	BTCB0303-200
Maximun number of input paths	6	6	3	3
Rated Voltage of Branch[V]	80V	/	80V	/
Branch rated Current [A]	125A	200A	125A	200A
Battery Switch	PEBS-L	/	PEBS-L	/
Shell Material	Metal Chassis			
Protection Level	IP21			
Operating Temperature range	-10°C~50°C			
Net weight(KG)	8.1KG	7.1KG	7.4KG	6.8KG
Gross Weight(KG)	9.7KG	8.7KG	9.0KG	8.4KG
Product Dimension(mm)	516x300x136mm			
Package Dimension(mm)	592x392x218mm			



Introduction

The combiner box is a power collection and protection device in the solar power generation system, which brings together the DC energy of multiple panels and transmits the power to the inverter through the output interface. The bus box not only serves as a gathering function, but also monitors and protects each solar panel to ensure the safe and efficient operation of the system.