











Scan QR to Download Brochure

### FelicityESS

Energy Storage System

Easy, Safe, Smart







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### AOOUt





**>>>>** 

2021

Expanded to Middle East & America, achieving \$400 million sales, branches in Senegal, Dubai, Uganda, Cote d'Ivoire, Panama, Lebanon. 2023

Selected as a leading brand for residential hybrid photovoltaic energy storage products, relocated to an independent, self-sufficient photovoltaic smart park.

**2011**First solar panel produced.

2016-2017

Established first overseas branch in Nigeria.

2007

Company Establishment.

2018-2020

Rapidly expanded its presence across Africa, establishing branches in key countries and essentially covering the entire continent.

2022

Selected as a famous Brand, business has expanded to countries such as Netherlands, Germany, company's operations now span across numerous European countries, establishing a widespread presence throughout the region.

2024

Felicity Solar Technology Co., Ltd. changed to Felicity Group, comprising Felicity Solar, Felicity ESS New Energy, and Felicity Green Energy subsidiaries.

2008-2010

Formation of the company team and development of photovoltaic product series.

2012-2014

Opened offline shops, achieved \$500,000 sales in 2013.

### **F** Introduction

Guangdong Felicity New Energy Co., Ltd. (FelicityESS), with 16 years of experience from Felicity Group, focuses on mid-to-high-end energy storage markets in Europe, America, Australia, and South Africa. As a high-tech company in photovoltaic energy storage, FelicityESS offers eco-friendly, smart, sustainable energy storage solutions aimed at delivering high-value and quality clean energy to upscale households and business clients. It drives green, low-carbon development and fosters the broad adoption of clean energy for environmental sustainability.

To meet diverse market and customer needs, FelicityESS has expanded its range to include advanced residential and commercial energy storage products such as off-grid and on-grid inverters, integrated storage systems, and EV charging stations. These additions not only enrich our lineup but also strengthen our core competitiveness in smart energy solutions. Our products offer flexible energy conversion, and efficient storage solutions for homes and businesses, and support the growth in electric vehicle charging demand, highlighting our commitment to promoting clean energy vehicles. FelicityESS continues its dedication to R&D and innovation, striving to provide safer, more reliable, and eco-friendly clean energy products and services globally.



R&D Team: **200+** 



Countries/Regions:



Area: **62,300 sqm** 



R&D Experience: **17+ years** 



Worldwide Offices: **30+** 



Patents: **100+** 



















### **F** Contacts & Partnership Models

### Manufacturer

Tel: 020-36719108

Email: sales@felicityess.com

Factory 1: No. 2, Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, China (10mins to Baiyun Airport)

Factory 2: Floor 1-3, Building 8, Bawang Industrial Park, Jianggao Towm, Baiyun District, Guangzhou, China

### Europe

### Host Office in EU

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Email: europe@felicityess.com

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Warehouse: Meerval 1 4941 SK Raamsdonksveer, Netherlands

### **Europe After Sales Service Center**

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### Office in Germany

Tel: +49 17628690449/Whatsapp: +86 18928012454

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Add: Röntgenstraße 4, 63512 Hainburg, Germany

### Office in Poland

Tel: +48 799049508/Whatsapp: +86 15923768787

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Add: Belwederska 9A, 00-761 Warszawa, Poland

### Office in UK

Tel: +44 07747 208191 / +86 195 6637 5890

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Add: Calle A, Lote 2, Amelia Industrial Park, Guaynabo, 00969,PR,USA

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Email: kelvin-liu@felicityess.com

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06500 Ciudad de México CDMX, México

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### Office in Australia

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**☎** Whatsapp: +86 13660800993

Email: witson@felicityess.com

■ Headquarters Email:australia@felicityess.com

Adress: 11 McDermott Parade, Rochedale, QLD, 4123.

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### South Africa

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Tel: +27 697197788

■ Email: adminza@felicityess.com

Add: A3, Growthpoint Industrial Estate, 1 Bell St, Meadowdale, Germiston, 1614, South Africa

### **Partnership Models**

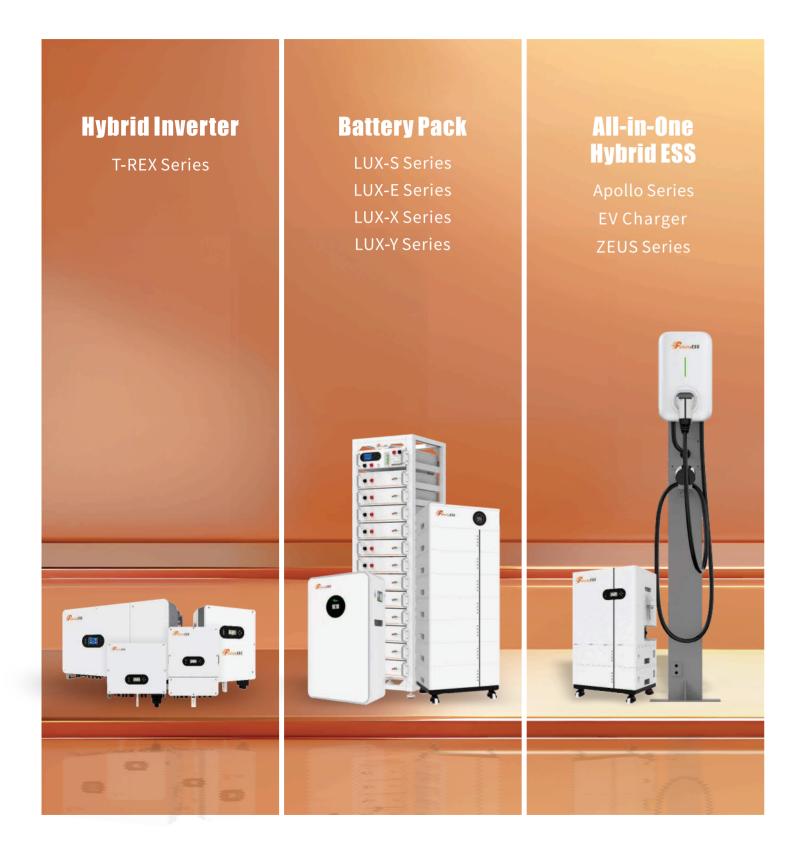


•Supplying marketing materials, product training, and sales strategy support to enhance distributor market performance.



Marketing and Sales Support

### Product Series







# Series

**F**elicity ESS

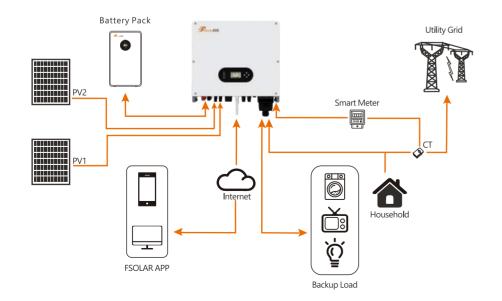
T-REX-4.6/5K/6KLP1G01



### **Product Features**



### Connection diagram



Model	T-REX-4K6LP1G01	T-REX-5KLP1G01	T-REX-6KLP1G01		
Battery Input Data					
Battery Voltage Range		40V~60V			
Max. charging and discharging current	100A/	120A/120A			
Max. charging and discharging power	4600W	5000W	6000W		
Battery type		Li-lon /Lead-acid			
DC Input Data(PV side)	C000W(2000W for single DV)	CEOOM (2500) W for six als DV	7000\M (2000\M for single D)		
Max.recommended PV power	6000W (3000W for single PV)	6500W (3500W for single PV)	7800W (3900W for single PV)		
Max.PV voltage		550V			
Start voltage		130V			
PV voltage range		90V-550V			
MPPT voltage range	2007 2007	100V-500V	2007 2007		
MPPT Voltage Range for Full Load	200V-500V	220V-500V	260V-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		2201			
Nominal Input Voltage		230Vac			
Input Voltage Range		184-264.5Vac*			
Nominal grid frequency		50/60Hz			
Max. input current		40A			
Max. Charge Current	100		120A		
Max. AC output power	4600W	5000W	6000W		
AC Output Rated Current	20A	21.7A	26A		
Max. Output current	25A	25A	30A		
Max. Continuous AC Passthrough		30A			
Power Factor		>0.99			
Displacement power factor		0.8( leading) to 0.8( lagging)			
THDI		< 3%			
AC Output Data(Back Up)					
Rated output power	4600VA/4600W	5000VA/5000W	6000VA/6000W		
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	Nat		Intelligent Air Cooling		
Altitude		2000m			
Communication		RS232/RS485			
BMS Communication		CAN/RS485			
Monitor module		WiFi/GPRS			
Display		LCD+LED			
Installation Style		Wall-mounted			
Warranty[1]		10 years			
Grid Regulation	VDE-AR-N 410	5; G99/1; EN50549-1; CEI 0-21; AS 4777.	2; NRS 097-2-1;		
Safety Regulation		IEC 62109-1/2IEC 62040-1			
EMC		EN61000-6-1.EN61000-6-3			
Net Weight(KG)		32.4KG			
Gross Weight(KG)		39.1KG			
Product Dimension(MM)		530*493*228MM			
Package Dimension(MM)		632*570*315MM			

<sup>[1]</sup>Conditions apply, refer to FelicityESS Warranty Letter.

<sup>\*</sup>According to local grid-connected standards

**F**elicity ESS

T-REX-10KLP3G01



### **Product Features**



Multi-way MPPT design



Support half-wave load, and unbalanced load



Lithium battery activation function



UPS grade on/off grid switching

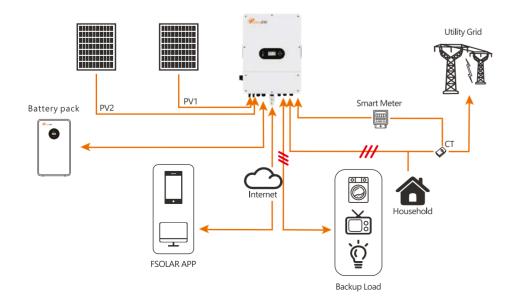


Equipped with remote real-time monitoring platform



IP65 protection grade

### Connection diagram



Model	T-REX-10KLP3G01
Battery Input Data	
Battery Voltage Range	40V~60V
Max. charging and discharging current	200A/200A
Max. charging and discharging power	10000W
Battery type	Li-Ion /Lead-acid
DC Input Data(PV side)	
Max.recommended PV power	13000W (6500W for single PV)
Max.PV voltage	900V
Start voltage Start voltage	180V
PV voltage range	160V-900V
MPPT voltage range	200V-850V
MPPT Voltage Range for Full Load	450V-850V
Nominal voltage	720V
Max.input current	15A/15A
Max. shorted current	18A/18A
Number of MPP trackers / strings per MPP tracker	2/1
Grid Data	2) 1
	11/12/12/NI/DE 220/400Vaa
Nominal Input Voltage	L1/L2/L3/N/PE, 230/400Vac
Input Voltage Range	184-264.5Vac*
Nominal grid frequency	50/60Hz
Max. input current	30A
Max. Charge Current	200A
Max. AC output power	10000W
AC Output Rated Current	14.5A
Max. Output current	18A
Max. Continuous AC Passthrough	30A
Power Factor	>0.99
Displacement power factor	0.8( leading) to 0.8( lagging)
THDI	< 3%
	< 3%
AC Output Data(Back Up)	4000014 (4000014
Rated output power	10000VA/10000W
Max. Output current	30A
Rated AC output voltage	L1/L2/L3/N/PE, 230/400Vac
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	Smart cooling
Altitude	2000m
Communication	RS232/RS485
BMS Communication	CAN/RS485
Monitor module	WiFi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty[1]	10 years
Grid Regulation	VDE-AR-N 4105; G99/1; EN50549-1; CEI -21; AS 4777.2; NRS 097-2-1;
Safety Regulation	IEC 62109-1/2IEC 62040-1
EMC	EN61000-6-1.EN61000-6-3
Net Weight(KG)	38.9KG
Gross Weight(KG)	47.1KG
Product Dimension(MM)	47.1NG 655*475*266MM
ELIMINA I DILIPUNDILIVINI	ואואומת א"ב א"ב א"ב א "ב" אוואומת א"ב א "ב" א "ב

 $<sup>\</sup>hbox{[1]} Conditions apply, refer to Felicity ESS Warranty Letter. \\$ 

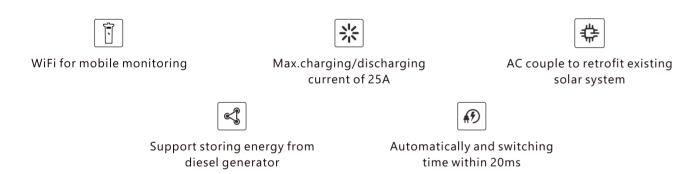
<sup>\*</sup>According to local grid-connected standards

**Felicity ESS** 

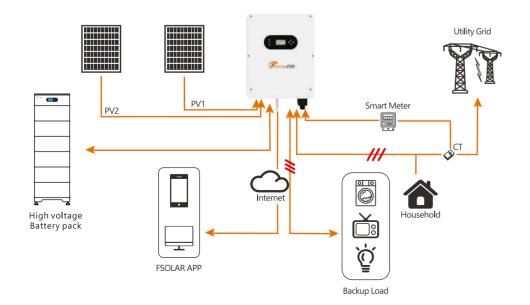
T-REX-10KHP3G01



### **Product Features**



### Connection diagram



### Specification

Model	T-REX-10KHP3G01
Battery Input Data	
Battery Voltage Range	180V~580V
Max. charging and discharging current	25A
Max. charging and discharging power	10000W
Battery type	Li-Ion /Lead-acid
DC Input Data(PV side)	El jon/secon dela
Max.recommended PV power	13000W (6500W for single PV)
Max.PV voltage	900V
Start voltage	160V
-	
PV voltage range	160V-900V
MPPT voltage range	200V-850V
MPPT Voltage Range for Full Load	450V-850V
Nominal voltage	720V
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	L1/L2/L3/N/PE, 230/400Vac
Input Voltage Range	184-264.5Vac*
Nominal grid frequency	50/60Hz
Max. input current	30A
Max. Charge Current	25A
Max. AC output power	10000W
AC Output Rated Current	14.5A
Max. Output current	18A
Max. Continuous AC Passthrough	30A
Power Factor	>0.99
Displacement power factor	0.8(leading) to 0.8(lagging)
THDI	< 3%
AC Output Data(Back Up)	-5,0
Rated output power	10000VA/10000W
Max. Output current	30A
	L1/L2/L3/N/PE, 230/400Vac
Rated AC output forgunary	50/60Hz
Rated AC output frequency	5U/6UFIZ
Efficiency	07.504
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	WiFi/GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty[1]	10 years
Grid Regulation	VDE-AR-N 4105; G99/1; EN50549-1; CEI -21; AS 4777.2; NRS 097-2-1;
Safety Regulation	IEC 62109-1/2IEC 62040-1
EMC	EN61000-6-1.EN61000-6-3
Net Weight(KG)	35.3KG
Gross Weight(KG)	39.7KG
Product Dimension(MM)	533*431*213MM

[1]Conditions apply, refer to FelicityESS Warranty Letter.

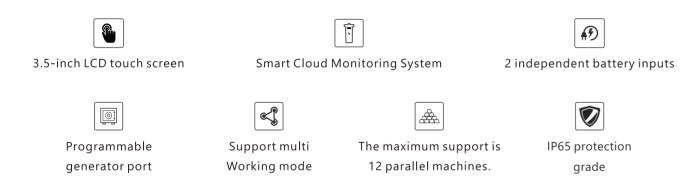
\*According to local grid-connected standards

**FelicityESS** 

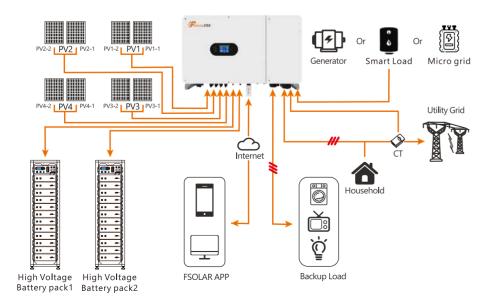
T-REX-50KHP3G01



### **Product Features**



### Connection diagram



### Specification

Model	T-REX-50KHP3G01	
Battery Input Data		
Battery Type	LFP (LiFePO4)	
Battery Voltage Range	160~800Vd.c.	
Max. Charging Current	50+50(A)	
Max. Discharging Current	50+50(A)	
Number of battery input	2	
	۷	
PV String Input Data	CEMM/4CMMC : 1 DIA	
Max. DC Input Power	65KW (16KW for single PV)	
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(A)	
Max. PV Isc	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	72.5 A	
Max. AC Current	79.7 A	
Rated AC Voltage	220/380,230/400 Vac (-20%~+15%)	
AC Wiring Mode	3W+N+PE	
Rated AC Frequency	50 /60 Hz (45~55Hz/55~65Hz)	
THDI	<3% (At Rated Power)	
Power Factor	0.8(leading) to 0.8(lagging)	
Efficiency		
Max. efficiency	97.6%	
Euro efficiency	97.0%	
MPPT efficiency	99.9%	
Protection		
PV Input Lightning Protection,		
PV String Input Reverse Polarity Protection,		
Battery Input Lightning Protection,		
Battery Input Reverse Polarity Protection,		
Insulation Resistor Detection,	Integrated	
Residual Current Monitoring Unit,		
Output Over Current Protection,		
Output Shorted Protection,		
Output Over Voltage Protection,		
Anti-islanding Protection,		
AC Output Lightning Protection。		
Certification and Standards		
Certification and Standards	NIDC 007 2 4 VIDE 440E ENERGE 40 4 46 4777 2	
Grid Regulation	NRS 097-2-1,VDE4105,EN50549-1,AS 4777.2 G99/1,CEI 0-21,NC. RFG	
Cafaty EMC / Standard		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2	
General Data	05.570	
Net Weight	85.6KG	
Gross Weight	98.4KG	
Product Dimension	940*582*340mm	
Package Dimension	1110*770*463mm	
Protection Degree	IP65	
Operating Temperature Range	-25 to 60 °C (> 50 °C derating)	
Humidity	0 ~ 95 % (No condensation)	
Cooling	Smart cooling	
Altitude	3000 m (> 2000 m derating)	
Communication with BMS	RS485,CAN	
Monitor module	WiFi/GPRS	
Installation Style	Wall-mounted	

[1]Conditions apply, refer to FelicityESS Warranty Letter.

<sup>\*</sup>According to local grid-connected standards



## LUX Series



### **LUX-S Battery Pack**

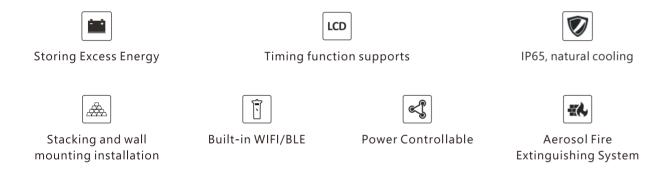
### **FelicityESS**

Built-in Controller

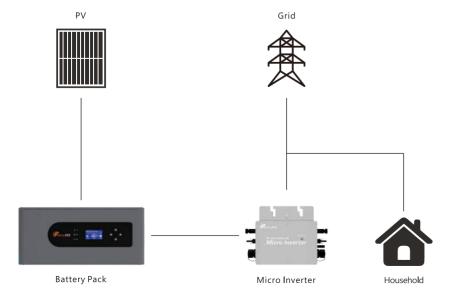
LUX-S-1600LG01



### **Product Features**



### Connection diagram



Model	LUX-S-1600LG01				
NPUT DATA					
Commonly Used Module Power	210 to 720W+ (2 Pieces)				
Maximum Input Voltage	60Vdc				
MPPT Voltage Range	16-60Vdc				
start-up Voltage	22V				
Maximum Input Current	2x20A				
Maximum Input Short Circuit Current	2x24A				
Number of MPPTs	2				
Number of Inputs per MPPT	1				
DUTPUT DATA					
Dutput Voltage Range	28-36Vdc				
Maximum Output Current	2x25A				
BATTERY DATA					
Capacity	1600Wh				
Battery Type	LiFePO4				
Nominal Voltage	32Vdc				
Operating Voltage	28-36Vdc				
Depth of Discharge(DOD)	≥95%				
Charging Temperature Range	0°C ~ 55°C				
Discharging Temperature Range	-20°C ~ 55°C				
Maximum Charge Current	40A				
Maximum Discharge Current	50A				
MECHANICAL DATA					
Noise(dB)	<35dB (1 meter)				
Protection Level	IP65				
Cooling	Natural convection – No fans				
Humidity	0-95% ( no condensation)				
Altitude	Up to 2,500 meters				
nstallation	Wall-Mounted				
Net Weight	24kg				
Gross Weight	28kg				
Product Dimension(WxHxD)	440×200×325mm				
Package Dimension(WxHxD)	537×272×387mm				
EATURES					
Display	LCD+LED				
Communication	WIFI/Bluetooth				
Monitoring	Fsolar APP				
Protection	Bulti-in Smart BMS,Breaker,Fuse				
Varranty Period[3]	10 Year				
imited Warranty <sup>2</sup>	>80% capacity, up to 6,000 cycles				
External 2-in-1 PV cable.	·				
Whichever occurs first. Restrictions apply.					



### S

# L. Series



### **LUX-E Battery Pack**

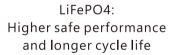
LUX-E-48100LG04





### **Product Features**







Multiple Protection: Built-in smart BMS and Breaker





Wide Compatibility: Compatible with leading inverter brands



Flexible Installation: Wall-Mounted or Floor-Mounted



High Scalability



IP65: Waterproof, dustproof, reliable in harsh environments



Aerosol Fire Extinguishing System



Long Warranty: 10 Years

### Specification

Model	LUX-E-48100LG04	
Battery Type	LiFePO4	
Nominal Energy	5.12kWh	
Nominal Capacity	100Ah	
Nominal Voltage	51.2V	
Operating Voltage	44.8~57.6V	
Recommend Charge/Discharge Current	50A	
Max.continuous charge/Discharge current[1]	60A	
Peak Charge/Discharge Current(15s)	100A	
Scalability	Max. 12 PCS in Parallel (61.44kWh)	
Depth of Discharge(DOD)	≥ 95%	
Display type	LED	
Protection Level	IP65	
w 1:	Charge: 0°C~55°C	
Working Temperature Range	Discharge:-20°C~55°C	
Storge Temperature Range	0°C-+35°C	
Humidity	5%~95%	
Altitude	≤ 2000m	
Communication	RS485 / CAN	
Cycle Life	≥ 6000 Cycles (25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)	
Installation	Wall-Mounted / Floor-Mounted	
Protection	Built-in smart BMS, Breaker	
Warranty Period[2]	10 Years	
Product Weight Approximate	48.5 kg	
Package Weight Approximate	64.5 kg	
Product Dimension	665x440x175 mm	
Package Dimension	760x540x345 mm	
[1] Max. continuous charge/discharge current is	affected by temperature and SOC.	
[2] Conditions apply, refer to FelicityESS Warrant	y Letter.	

19/20

### **LUX-E Battery Pack**



LUX-E-48100/48200/48230/48250LG03



### **Product Features**



LiFePO4: Higher safe performance and longer cycle life



Multiple Protection: Built-in smart BMS and Breaker



Flexible Installation: Wall-Mounted or Floor-Mounted



Wide Compatibility: Compatible with leading inverter brands



High Scalability



Long Warranty: 10 Years



Built-in WIFI: Remote monitoring of battery pack data



Aerosol Fire Extinguishing System

### Specification

Model	LUX-E-48100LG03	LUX-E-48200LG03	LUX-E-48230LG03	LUX-E-48250LG03		
Battery Type	LiFePO4					
Nominal Energy	5.12kWh	12.5kWh				
Nominal Capacity	100Ah	205Ah	230Ah	250Ah		
Nominal Voltage		51	.2v			
Operating Voltage		44.8~	57.6V			
Recommend Charge/Discharge current	50A	100A	100A	100A		
Max. continuous charge/Discharge current[1]	100A	150A	150A	150A		
Peak Charge/Discharge current(15s)	150A	200A	200A	200A		
Scalability	Max. 15(76.8kWh)	Max. 15(157.4kWh)	Max. 15(176.6kWh)	Max. 15(187kWh)		
Depth of discharge (DOD)		≥9	5%			
Display type		LC	CD .			
Protection Level		IP	21			
Westing Town and an Donne	Charge:0~+55°C					
Working Temperature Range	Discharge:-20C~+55°C					
Storge Temperature Range		0°C~	+35°C			
Humidity		5%~	95%			
Altitude		≤20	00m			
Communication		RS485	/ CAN			
Cycle Life		≥ 6000 Cycles (25°C±2°C,0.	5C/0.5C,90%DOD,70%EOL)			
Installation		Wall-Mounting /	Floor-Mounting			
Protection		Built-in smart BN	AS, Breaker, Fuse			
Warranty Period[2]		10 \	'ear			
Product Weight Approximate	55kg	90kg	92kg	92kg		
Package Weight Approximate	75kg	108kg	110kg	110kg		
Product Dimension	775×425×209mm	783x450x274mm	783x450x274mm	783x450x274mm		
Package Dimension	892×545×385mm	900x570x450mm	900x570x450mm	900x570x450mm		

<sup>[2]</sup> Conditions apply, refer to FelicityESS Warranty Letter.

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## LUX Series



### **LUX-X Battery Pack**

LUX-X-48050LG01





### **Product Features**



Flexible: Modular design, easy to expand, Max. 4pcs in parallel



Wide temperature range:  $-20^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ 



Safer: Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan



Quick Installation: Flat and stackable design, support wall-mounted & floor-mounted wiring, rapid and easy installation



Reliable: Support high discharge power. Ip65, natural cooling



Aerosol Fire Extinguishing System

### Specification

Model		LUX-X-48050 LCG01-1	LUX-X-48050 LMG01-1	LUX-X-48050 LG01M2	LUX-X-48050 LG01M3	LUX-X-48050 LG01M4		
Battery Type		LiFePO4						
Module Energy		2.56kWh						
Module Nominal Volt	age			50Ah				
Module Nominal Cap	acity			51.2V				
Module Nominal Volt	age	1	1	2	3	4		
System Energy		2.56kWh	2.56kWh	5.12kWh	7.68kWh	10.24kWh		
System Nominal Volt	age			51.2V				
System Operating Vo	Itage			44.8~57.6V				
Scalability			Max.	4 pcs in Parallel (10.2	4kWh)			
Recommend Charge/	Discharge current	25A	25A	40A	40A	40A		
Max. continuous char	ge/discharge current[1]	50A	50A	80A	80A	80A		
Peak Charge/Dischar	ge current(15S)	100A	100A	200A	300A	400A		
Depth of discharge(D	OD)			≥ 95%				
Display type			Control Mo	dule:LCD/Battery Mo	dule:LED*4			
IP Rating of Enclosure	2			IP65				
Working Temperature	e Range	Charge:0~+55°C/Discharge:-20°C~+55°C						
Storge Temperature F	Range			0°C~+35°C				
Humidity		5%~95%						
Altitude				≤2000m				
Communication				RS485 / CAN				
Cycle Life			≥ 6000 Cycles (2	5°C±2°C,0.5C/0.5C,90	%DOD,70%EOL)			
Installation				Floor-Mounting				
Protection			Built-	in smart BMS, Breaker	, Fuse			
Warranty Period[2]				10 Year				
	Product Weight Approximate			31Kg				
Control Module	Package Weight Approximate			40Kg				
LUX-X-48050LCG01	Product Dimension	530*350*180mm						
	Package Dimension			642*462*337mm				
	Battery Designation		IFpP/41/	150/102/[1P16S]M/-1	0+50/95			
	Product Weight Approximate			31Kg				
Battery Module LUX-X-48050LMG01	Package Weight Approximate			36Kg				
	Product Dimension			530*350*175mm				
	Package Dimension			642*462*293mm				
	charge/Discharge current is affect		1000					

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### **LUX-X Battery Pack**

LUX-X-48100LG01





### **Product Features**



LiFePO4: Higher safe performance and longer cycle life



Multiple Protection: Built-in smart BMS, Breaker and Fuse



Flexible Installation: Movable type Floor-Mounted



Wide Compatibility: Compatible with leading inverter brands



High Scalability



Modular design for easy installation and increased capacity



Aerosol Fire Extinguishing System

Model		LUX-X-48100LG01							
Battery Type					LiFe	PO4			
Module Nominal Energy					5.12	kWh			
Module Nominal Cap	acity				100	Ah			
Module Nominal Volt	age				51.	2V			
Number of Battery M	odules	1	2	3	4	5	6	7	8
System Nominal Ener	gy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
System Nominal Volta	age				51.	2V			
System Operating Vo	ltage				44.8~	57.6V			
Recommend Charge/	Discharge Current	50A	100A	150A	200A	250A	300A	350A	400A
Max. continuous char	ge/discharge current[1]	60A	120A	180A	240A	300A	360A	400A	400A
Peak Charge/Dischar	ge current(15S)	100A	200A	300A	400A	500A	600A	700A	800A
Scalability				М	ax.8 pcs in Par	allel(40.96kW	/h)		
Depth of discharge(D	OD)				≥ 9	5%			
Display type				Control	Module:LCD/I	Battery Modu	le:LED*4		
Protection Level					IP	21			
Working Temperature Range				Charge	e:0~+55°C/Dis	charge:-20°C	~+55°C		
Storge Temperature Range					0°C~-	+35°C			
Humidity					5%~	95%			
Altitude					≤20	00m			
Communication					RS485	/ CAN			
Cycle Life				≥ 6000 Cycle	s (25°C±2°C,0.	5C/0.5C,90%[	DOD,70%EOL)		
Installation				W	/all-Mounted /	Floor-Mount	ed		
Protection				Bu	ilt-in smart BN	ЛS, Breaker, F	use		
Warranty Period[2]					10 Y	ear/			
	Product Weight Approximate				46	kg			
Control Module	Package Weight Approximate (with base)				60	kg			
LUX-X-48100LCG01	Product Dimension	600x450x180 mm							
	Package Dimension(with base)				712x562	x333 mm			
	Product Weight Approximate								
Battery Module	Package Weight Approximate				50	kg			
LUX-X-48100LMG01	Product Dimension				600x450	x180 mm			
	Package Dimension	712x562x298 mm							
[1] Max. continuous o	harge/discharge current is affec	ted by tempe	erature and SO	ıC					



### **LUX-X Battery Pack**

LUX-X-96050HG01





### **Product Features**



Inverter Interface Protection



Multiple Protection: Built-in smart BMS, Breaker and Fuse



LiFePO4: Higher safe performance and longer cycle life



Aerosol Fire Extinguishing System



Flexible Installation: Stack-Mounted



Wide Compatibility: Compatible with leading inverter brands



High Scalability



Long Warranty: 10 Years

Model				LUX-X-96	5050HG01		
Battery Type				LiFe	PO4		
Module Energy		5.12kWh					
Module Nominal Volt	age			102	2.4V		
Module Capacity				50	Ah		
Number of Battery M	odules	1	2	3	4	5	6
System Energy		5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
System Nominal Volt	age	102.4V	204.8V	307.2V	409.6V	512V	614.4V
System Operating Vo	Itage	96-115.2V	192-230.4V	288-345.6V	384-460.8V	480-576V	576-691.2\
Recommend Charge/	Discharge current	25A	25A	25A	25A	25A	25A
Max. continuous char	ge/discharge current[1]	50A	50A	50A	50A	50A	50A
Peak Charge/Dischar	ge current(15S)	60A	60A	60A	60A	60A	60A
Depth of discharge(D	OD)			≥ 9	95%		
Display type				LED+LC	D(Touch)		
Protection Level				IP	65		
Operating Temperatu	re Range	Charge:0~+55°C/Discharge:-20°C~+55°C					
Storge Temperature Range				0°C~	+35°C		
Humidity				5%~	95%		
Altitude				≤20	00m		
Cycle Life			≥ 6000	Cycles (25°C±2°C,0.	5C/0.5C,90%DOD,7	'0%EOL)	
Installation				Stacking-Mountin	g / Floor-Mounting		
Protection				Built-in smart	BMS, Breaker		
Communication Port				RS485	/CAN		
Warranty Period[2]				10	Year		
	Net Weight			12.	5 kg		
Control Module	Gross Weight(with base)			24.	5 kg		
LUX-X-96050HCG01	Product Dimension			600x385	x200 mm		
	Package Dimension(with base)			712x497	x352 mm		
	Battery Designation[3]		IFp	P/41/150/102/[(1P	32S)NS]M/-10+50/	90	
	Net Weight			57.	5 kg		
Battery Module LUX-X-96050HMG01	Gross Weight	62 kg					
ZOX X SOOSOHWOOT	Product Dimension	600x385x260 mm					
	Package Dimension	712x497x378 mm					
[1] Max. continuous o	harge/discharge current is affec	ted by temperati	ure and SOC.				
[2] Conditions apply,	refer to FelicityESS Warranty Let	ter					





## LUX Series



### **LUX-Y Battery Pack**

LUX-Y-48280/48300LG01





### **Product Features**



Higher safe performance and longer cycle life



Multiple Protection: Built-in smart BMS, Breaker and Fuse



Flexible Installation: Wall-Mounted or Floor-Mounted



Aerosol Fire Extinguishing System



Wide Compatibility: Compatible with leading inverter brands



High Scalability



Built-in WIFI: Remote monitor of the battery pack data



Long Warranty: 10 Years

### Specification

Model	LUX-Y-48280LG01	LUX-Y-48300LG01				
Battery Type	LiFePO4					
Nominal Energy	14.3kWh 15kWh					
Nominal Capacity	280Ah	300Ah				
Nominal Voltage	51	.2V				
Operating Voltage	44.8~	57.6V				
Recommend Charge/Discharge Current	12	0A				
Max.continuous charge/Discharge current[1]	15	0A				
Peak Charge/Discharge Current(15s)	20	0A				
Scalability	Max.15(215kWh)	Max.15(225kWh)				
Depth of Discharge(DOD)	≥9	5%				
Display type	LC	CD				
Protection Level	IP	21				
Working Temperature Range	Charge: 0°C∼+55°C					
working reinperature kange	Discharge:-20°C~+55 °C					
Storge Temperature Range	0°C~+35°C					
Humidity	5%-	95%				
Altitude	≤20	00m				
Communication	RS485	J/CAN				
Cycle Life	$\geq$ 6000 Cycles (25°C±2°C,0.	5C/0.5C,90%DOD,70%EOL)				
Installation	Wall-Mounted /	/ Floor-Mounted				
Protection	Built-in smart BN	MS, Breaker, Fuse				
Warranty Period[2]	10Y	ears ears				
Product Weight Approximate	135kg					
Package Weight Approximate	160	0kg				
Product Dimension	480x110	0x300mm				
Package Dimension	1150x63	5x498mm				
[1] Max.continuous charge/Discharge current is a	ffected by temperature and SOC.					
[2] Conditions apply, refer to FelicityESS Warranty	Letter.					

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### **LUX-Y Battery Pack**

LUX-Y-48100HG01





### **Product Features**



Inverter interface protection: Over voltage, Over current, External Short Circuit



Battery Protection: Internal Short Circuit, Over voltage, over current, over temp



LiFePO4:Higher safe performance and longer cycle life



Aerosol Fire Extinguishing System



Flexible Installation: Stack-Mounted



Wide Compatibility: Compatible with leading inverter brands



High Scalability



Long Warranty: 10 Years

Model		LUX-Y-48100HG01			
Battery Type Module Energy		LiFePO4			
Module Energy			5.12KWh		
Single Module Nominal Voltage			51.2V		
Module Capacity			100AH		
Number of Battery Mo	dules (Optional)	4(Min)	4(Min) 8		
System Energy		20.48kWh	40.96kWh	61.44kWh	
System Nominal Volta	ge	204.8V 409.6V		614.4V	
System Operating Vol	tage	192-230.4V 384-460.8V 576			
Scalability[3]		Max. 16 PCS in Parallel (983.04kwh)			
Recommend Charge/I	Discharge current		50A		
Max. continuous charg	ge/Discharge current[1]		100A		
Peak Charge/Discharg	e current(15S)		120A		
Depth of Discharge(D	OD)		≥ 95%		
Display type			LED+LCD(Touch)		
Protection Level			IP21		
Operating Temperatur	e Range	C	harge:0~+55°C/Discharge:-20°C~+55°	°C	
Storge Temperature R	ange		0°C~+35°C		
Humidity		5%~95%			
Altitude		≤2000m			
Cycle Life		$\geq$ 6000 Cycles (25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)			
Installation		Rack-Mounting			
Protection		Built-in smart BMS, Breaker			
Communication Port		RS485 / CAN			
Warranty Period[2]		10 Year			
	Product Dimension	482.6x565x150mm			
Control Module	Package Dimension		687x562x269mm		
LUX-Y-48100HCG01	Product Weight Approximate		10.3kg		
	Package Weight Approximate		16.7kg		
	Product Dimension	482.6x565x131mm			
Rattery Modula	Package Dimension		687x562x250mm		
Battery Module LUX-Y-48100HMG01	Product Weight Approximate	41.3kg			
	Package Weight Approximate		45kg		
	Product Dimension		560×590×2077.5mm (13th floor)		
Dock	Package Dimension	678×708×2200mm			
Rack LUX-Y-48100HR13G01	Product Weight Approximate	68.5kg			
	Package Weight Approximate	108.5kg			
	Product Dimension	<u> </u>			
	Package Dimension	560×590×1532.5mm (9th floor) 678×708×1655mm			
Rack LUX-Y-48100HR9G01	Product Weight Approximate	676×708×1655mm			
20	Package Weight Approximate				
	. ackage mengin Approximate	80.5kg(Approx) ected by temperature and SOC.			



## 

Series

### Apollo All-in-One Hybrid ESS



Apollo-4.6/5KLP1G01-MX



### **Product Features**



Flexible Storage Capacity



Programmable supply priority for battery or grid



100% output in off-gird mode



All in one design



Smart settable three stages MPPT charging



Real-time Remote Control via APP and website

### Specification

Model	Apollo-4K6LP1G01-M1	Apollo-4K6LP1G01-M2	Apollo-5KLP1G01-M1	Apollo-5KLP1G01-M	
System Specification					
Nominal Output Power	4600V/	A/4600W	5000V	A/5000W	
AC Output Frequency and Voltage	50/60Hz;L/N/PE 220/230Va.c				
Grid Type	Single Phase				
Energy Range (kWh)	5.12	10.24	5.12	10.24	
Max. Charging/Discharging Current (A)		-	100		
Battery Operating Voltage (V)	44.8-57.6				
Battery Type		LiF	FePO4		
P Rating ofEnclosure	IP21				
System Certification	VDE-AR-N 4105; G99/1; EN50549-1; CEI 0-21; AS 4777.2				
Warranty Period[1]		5 Years (For the Inverter	; 10 Years (For the battery)		
Inverter Technical Specification					
Max. PV Input Power(W)	60	000	6500		
Max. PV Input Current(A)			A/15A		
Rated PV Input Voltage (Vdc)		90	)~550		
Start Up DC Voltage (Vdc)			130		
MPPT Voltage Range(Vdc)			0~500		
Max. PV Short-circuit Current (A)	18A/18A				
No. of MPP Tracker	2/1				
Peak Power (off grid)	2 time of rated power, 0.2s				
Power Factor	0.8 leading to 0.8lagging				
DC injection current (mA)	THD<3% (Linear load < 2%)				
AC Output Voltage	230Va.c				
AC Output Frequency	230Va.c 50/60Hz				
AC Output Rated Current	20Aa.c 21.7Aa.c			7Aa.c	
Max. AC Output Current			0Aa.c		
AC Output Rated Active Power	460	00W*		00W*	
AC Output Rated Apparent Power		0VA*	5000VA*		
AC Output Power Factor			o 0.8 Lagging		
Display			D+LED		
Operating Temperature Range (°C)			>45°C Derating		
Relative Humidity			No Condensing)		
Dimension(Wx Dx H,mm)			450x640		
Weight Appr.(kg)			8.8kg		
Communication with BMS			I/RS485		
			G99/1; CE;EN50549-1,		
Grid Regulation		•	CEI 0-21; AS 4777.2		
Safety Regulation	IEC 62109-1/2, IEC 62040-1				
EMC	EN61000-6-1, EN61000-6-3				
Max. efficiency	97.6%				
Euro efficiency			7.0%		
MPPT efficiency	99.9%				
Battery Technical Specification					
Nominal Voltage (V)		5	1.2V		
Battery Module Energy (kWh)	5.12	10.24	5.12	10.24	
Scalability	5.12		apacity of 20.48kWh	10.21	
Battery Module Dimension (WxDxHmm)	600*450*180	600*450*360	600*450*180	600*450*360	
Battery Base Dimension (WxDxHmm)	000 430 100		440*120	333 430 300	
Battery Module Weight Appr.(kg)	46	92	440 120	92	
Charging Temperature Range	70			36	
Discharging Temperature Range	0-55°C -20-55°C				
Cycle Life			0.5C/0.5C,90%DOD,70%EOL	.)	
-, =	UN38.3.CE				

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# Series

### X-RAY Micro Inverter

#elicityESS

### X-RAY-BDM2250W



### **Product Features**



- 1. MPPT Tracking Efficiency up to 99.9%
- 2. CEC Weighted Average Efficiency up to 96.5%



- 1. Maximum DC Input Voltage is 60V 2. Equipped with Various Protections
- Such as GFDI, Surge Protection



1. IP67 Protection Level 2. -40°C to 65°C Operating Temperature 3. Built-in GFDI Lightning Protection 6000V



- 1. Plug and Play Installation
- 2. Easy to Expand or Change



- 1. Panel Level Monitoring with Built-in 1. Automatic High Temperature and WiFi Communication Methods
- 2. Real-time Control of Power Plant **Aperation Status**



- Fault Warning
- 2. Accurate to Every Minute of Data
- 3. Precise Positioning of Fault Points

MODEL	X-RAY-BDM2250W		
INPUT(AC)			
Max Recommended PV Power (W	750 x 4		
Max DC Open Circuit Voltage (Vdc)	60		
Max DC Input Current (Adc)	20 x 4		
MPPT Tracking Range (Vdc)	22-55		
OUTPUT(AC)			
Rated AC Output Power (W)	2250		
Rated AC Output Current (Aac)	9.78		
Nominal Power Grid Frequency (Hz)	50/60		
THD (at Rated Power)	<5%		
Power Factor	>0.99 (at Full Load)		
PROTECTION FUNCTIONS			
Protective Class	IP66/IP67		
Environment Temperature	-40°C ~ +65°C-40°C ~ +65°C		
WiFi Frequency Band	2.412GHz-2.472GHz		
WiFi Transmitting Power	802.11b:+17dBm+1.5dBm(@11Mbps) 802.11g:+15dBm +1.5dBm(@54Mbps) 802.11n:+14dBm1.5dBm(@HT20,MCS7)		



Series

### **ZEUS EV charger**

ZEUS-A7-ST/ZEUS-A11-ST





### Introduction

### Multi-scene applicable column, wall hanging can be installed

Garage charging/underground garage charging/outdoor charging, etc No fear of wind and rain, charge as you like

### Greatly improved charging efficiency

The 7KW device is compatible with all power modules below 7KW. Charging is more stable and efficient.

### **Eight Protection Functions Ensure Safe and Reliable Charging**

(47)

Overcurrent Protection



Leakage Protection



Undervoltage Protection



Waterproof Protection



Short Circuit Protection



Lightning Protection



Overvoltage Protection



Flame Retardant Protection





### **Specification**

Model	ZEUS-A11-ST	ZEUS-A7-ST	
Rated voltage	AC400V (50/60Hz) AC230V (50/60Hz)		
Rated Ampere	16A 32A		
Rated power	11kW	7kW	
Wire	Three phase (3P+N+PE) Single phase (P+N+PE		
Ingress Protection	lp65		
Installation Options	Column / Wall mounted		
Colour	White		
Weight	< 5kg		
Dimension (MM)	190*110*320MM		
Operating temperature	-40°C to 60°C	-40°C to 60°C/50°C to 60°C(16A)	
Humidity	5-95%humidity		
Altitude	≤2.0m		
Charging Cable Length	3.5M		
Environmental requirements	Meet ROHS2.0 requirements		

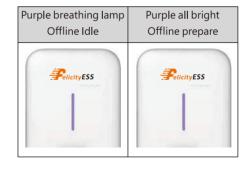
<sup>\*</sup>Conditions apply, refer to FelicityESS Warranty Letter.

### **Status Indicator Light**

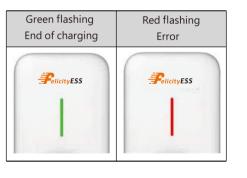
















# Residential & Commercial



Solutions



### 5kW, Low Voltage, Single Phase System

### **Advantages**



Cost-Effective Installation and Maintenance



Energy Efficiency



Simplified System Design and Compatibility



Ideal for Residential or Small-Scale Commercial Use

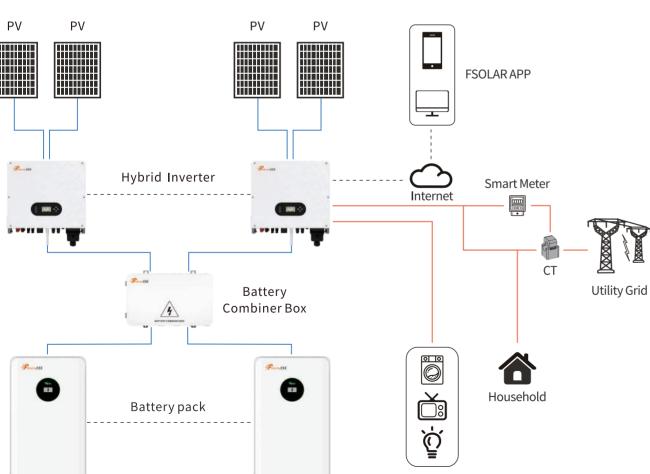
### **Connection Diagram**







Backup Load



### 10kW, Low Voltage, Three Phase System

### **Advantages**



Enhanced Power Supply



Improved Efficiency



Better for High-Demand Applications



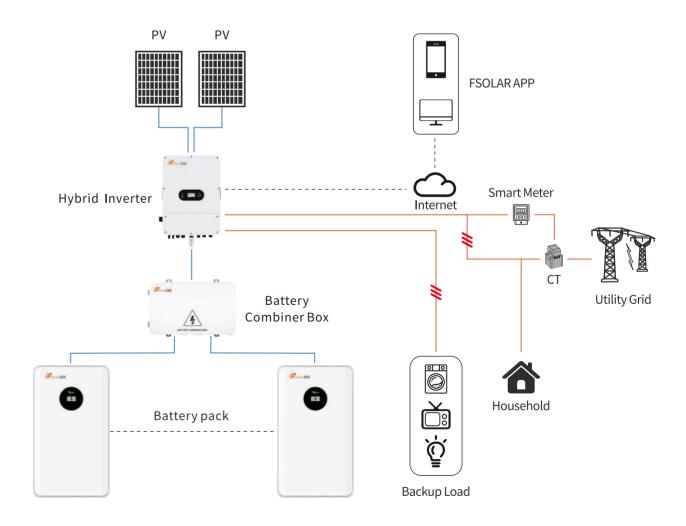
Reduced Conductor Size













### 10kW, High Voltage, Three Phase System

### **Advantages**



Reduced Transmission Losses



Increased Efficiency for Heavy Machinery

**DC** 



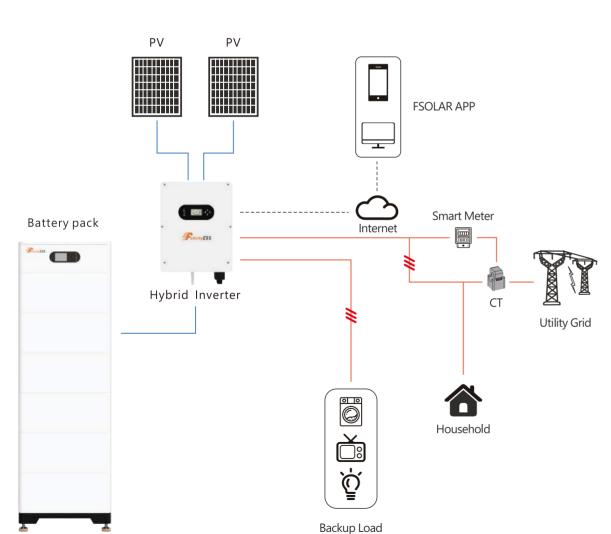
Lower Operating Costs

---- Communication



Enhanced Safety Features

### **Connection Diagram**



### 50kW, High Voltage, Three Phase System

### **Smart Loads Application Scenarios**



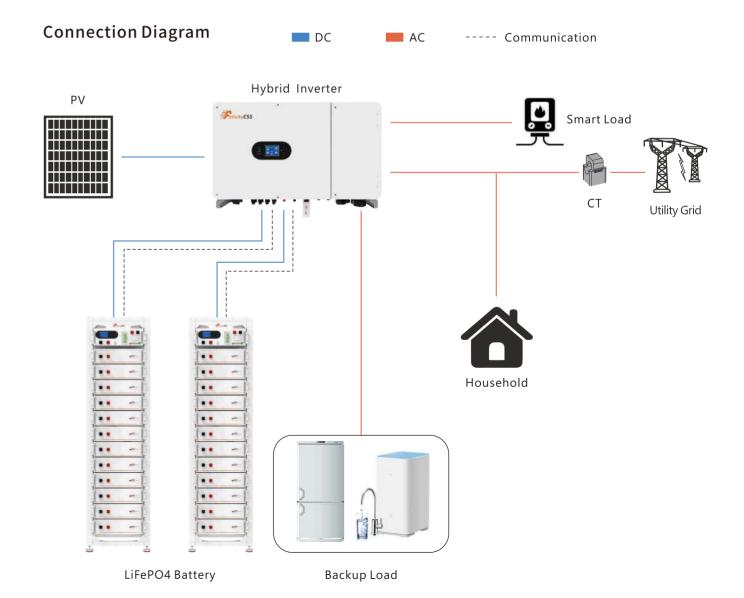
Home Energy Management Systems: Optimizing energy use in smart homes for efficiency and cost savings.



Demand Response: Automatically adjusting power consumption in industrial and commercial buildings during peak demand periods.



Intelligent Lighting Systems: Utilizing adaptive lighting based on occupancy and daylight to reduce energy use.





### 50kW, High Voltage, Three Phase System

### **Generator Application Scenarios**



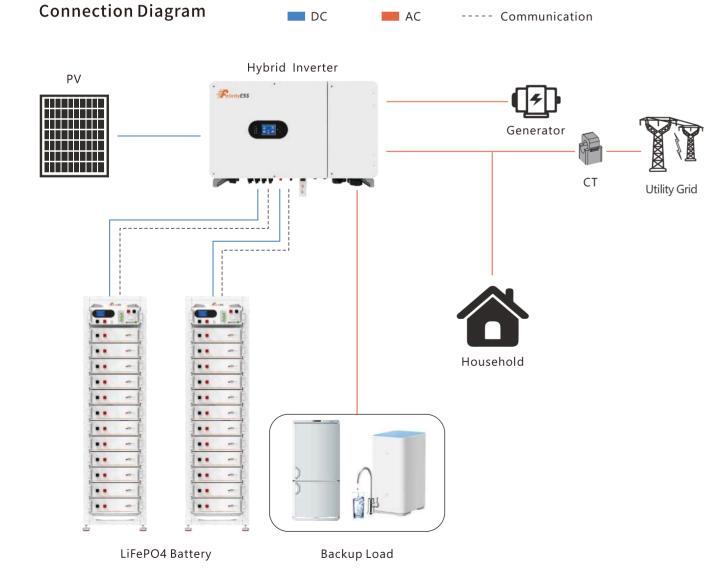
Standby Power for Critical Infrastructure: Ensuring continuous operation of hospitals, data centers, and emergency services during power outages.



Power for Remote Locations: Providing electricity for off-grid sites, including rural communities and isolated research stations.



Supplemental Power during Peak Loads: Offering additional power to supplement the grid during periods of high electricity demand.



### 50kW, High Voltage, Three Phase System

### Microgrid Application Scenarios



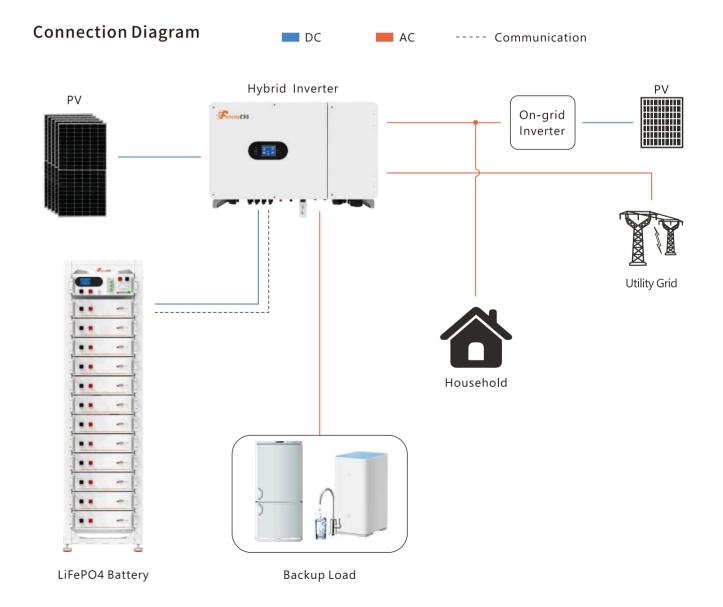
Islanded Communities: Supplying reliable power to remote or island communities with limited access to the main grid.



Renewable Energy Integration: Facilitating the incorporation of renewable sources like solar and wind into local energy systems.



Campus and Bases: Providing energy security and sustainability for educational campuses through localized grid control.





### Introduction

Smart WiFi-S WiFi Module for Solar Inverter enables wireless communication between off-grid inverters and the monitoring platform. Simply connect the module to the inverter using a communication cable, and install the app from Google Play or the Apple Store. You can then monitor the inverter's parameters in real time through your mobile phone.

### Specification

Model	Wifi Module		
General Data			
Product size (width/height/thickness) MM	122.5*68.5*27.2MM		
Packaging Size (width/height/thickness) MM	155*8035MM		
Net Weight(g)	74.1g		
Gross Weight(g)	128.4g		
WiFi Performance			
Wireless Standards	802.11b/g/n		
Working Frequency	802.11b/g/n		
	802.11b:18±2dBm		
Output Power	802.11g: 16±2dBm		
	802.11n:15±2dBm		
	CCK,1 Mbps:-96+2dBm		
	CCK.11 Mbps: -85dBm		
Receive Sensitivity	6 Mbps (1/2 BPSK): -88dBm		
Receive Sensitivity	54 Mbps (3/4 64-QAM):-70dBm		
	HT20(MCS7):-73±2dBm		
	HT40(MCS7): -70±2dBm		
Electrical Parameters			
Operating Voltage	12V		
Maximum Current	500mA		
Working Environment			
Protection Level	IP65		
Operating Temperature	-40°C +85°C		
Storage Temperature	40°C +125°C, < 90%RH		
Application Parameters			
Communication with Server	MQTT		
Supported Network	2.4G		
User Configuration Interface	FSolar APP or Website		
Data Upload Cycle	10 minutes		
Server Domain Name	https://shine.felicitysolar.com		

### Instructions

Model	IOTH2401	IOTH2402			
NAME	Smart WiFi-S	Smart WiFi-M			
WiFi NET WORK	2.4G WiFi	2.4G WiFi			
PICTURE	USB-A				
LED status:	80	802.11b/g/n			
PWR	ON,Norn	ON, Normal power supply			
COM	ON,Norn	ON, Normal power supply			
NET	ON.Normal commun	ON, Normal communication with the data server			

 $<sup>\</sup>hbox{$^*$Conditions apply, refer to FelicityESS Warranty Letter.}\\$ 

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# Commercial & and ustrial



### **C&I ESS Cabinet**

### # elicity ESS

### Liquid Cooling System 0.5P

FLS-ES232LC-S



### **Application Scenario**



Industrial and

commercial energy storage



energy









5G Base Station

Micro-grid

Battery change station

### **Features**

Hign Integration:
All in one Design

High Safety:
No Parallel, no Circulating Currents, Three Fire Prevention

Long Life: Cycle Life ≥ 6000

Easy Management:
Ready to Work with Auto Switch on Grid / Off Grid Switching

High Efficiency:
Battery 94%, System 87%

Easy Mantaince
Self-Diagnosis and Fault Location

Model	FLS-ES232LC-S	
DC		
Cell	LFP 280Ah	
Voltage	650~949V	
Pack Capacity / Arrangement	46.6KWH / 1P52S	
Protection	Circuit Braker and fuse	
Enclosure Protection	IP67	
System Capacity / Arrangement	232.9KWH/1P260S	
Nominal Current	140A	
Charge/Discharge Rate	≤0.5Cp	
DC Efficiency	94%	
AC(On Grid)		
Nominal Output Power	100KW	
Nominal Input Voltage	AC340V~460V	
Power Factor	-0.99~0.99	
Nominal Output Current	145A	
Nominal Grid Frequency	50Hz/60Hz	
Wiring	3P+N+PE(Non isolated)	
AC (Off Grid)		
Nominal Output Power	100KW	
Nominal Input Voltage	AC400V±3%	
THD	Linear Load ≤3%	
Nominal Output Current	145A	
Nominal Grid Frequency	50Hz/60Hz	
Output Wiring	3P+N+PE(Non isolated)	
System		
Overall System Efficiency	87%&0.5P (STD)	
Communication	LAN, ModbusTCP	
Fire Prevention	Pack level FK5112+pack level Aerosol + water	
DOD	5~95%	
Charging/Discharging Rate	≤0.5Cp	
Cooling Power	2.2kW/5.0kW@W18/L35	
Cooling	Liquid cooling	
Operation Temperature	-20°C~50°C(>45°C derating)	
Cabinet Enclosure Protection for Cabinet	IP54	
Relative Humidity Range	5~95%RH (no condensing)	
Noise	<75dB	
Weight	3000KG	
Max. Operation Altitude	≤2000M	
Size (MM)	1600L×1400D×2200H	

<sup>\*</sup>Conditions apply, refer to FelicityESS Warranty Letter.

### **C&I ESS Cabinet**



Air Cooling System 0.5Cp

FLS-MES215AF-S



### **Application Scenario**



Industrial and

commercial energy storage



energy











Distributed

Micro-grid showroom

Battery change station

### **Features**

Hign Integration:
All in one Design

Long Life:
Cycle Life ≥ 6000

High Efficiency:
Battery 94%, System 87%

Easy to Expand: with Module Design

High Safety:
No Parallel, no Circulating Currents, Three Fire Prevention

Easy Management:

Ready to Work with Auto Switch on Grid / Off Grid Switching

**Easy Mantaince** Self-Diagnosis and Fault Location

Car

Multi Branch: Support Load, Battery and PV.

Model	FLS-MES215AF-S	
DC		
Cell	LFP 280Ah	
Number of MPPT	2	
MPPT Operating Voltage/Full Load Voltage	250~ 850/450 ~850	
Protection	Circuit Braker and fuse	
Pack Capacity / Arrangement	14.336KWH / 1P16S	
Maximum PV Input Voltage/Power	1000V / 120kW	
System Capacity / Arrangement	215KWH/1P240S	
Nominal Current	140A	
Charge/Discharge Rate	≤0.5Cp	
DC Efficiency	94%	
AC(On Grid)		
Nominal Output Power	100KW	
Nominal Input Voltage	AC340V~460V	
Power Factor	-1~1	
Nominal Output Current	144A	
Nominal Grid Frequency	50Hz/60Hz	
Wiring	3P+N+PE	
AC (Off Grid)		
Nominal Output Power	100KW	
Nominal Input Voltage	AC400V	
THD	Linear ≤1%/Nonlinear ≤5%	
Nominal Output Current	144A	
Nominal Grid Frequency	50Hz/60Hz	
Output Wiring	3P+N+PE (Isolated transformer, STS inside)	
System		
Overall System Efficiency	87%&0.5P (STD)	
Communication	RS485, CAN, TCP/IP	
Fire Prevention	Fk5112	
DOD	5~95%	
Charging/Discharging Rate	≤0.5Cp	
Cooling Power	1.1 kW/ 3.0 kW	
Cooling	Forced air cooling	
Operation Temperature	-20°C~50°C(>45°C derating)	
Cabinet Enclosure Protection for Cabinet	IP54	
Relative Humidity Range	5~95%RH (no condensing)	
Noise	<75dB	
Weight	3900KG	
Max. Operation Altitude	≤3000M	
Size (MM)	2450L*1550D*2400H	

<sup>\*</sup>Conditions apply, refer to FelicityESS Warranty Letter.



### Accessory

### Series

### **Battery Combiner Box**



BTCB0606-120/200 BTCB0303-120/200



### **Product Features**



Convenient Circuit wiring.









Higher Current Can be Withstood

### Introduction

A Battery Combiner Box is a critical component in energy storage systems, designed to connect multiple battery packs into a unified system. It ensures safe and efficient operation by combining, protecting, and managing battery strings. With features like overcurrent protection, fault isolation, and centralized monitoring, it enhances system safety, reliability, and ease of maintenance.

### Specification

Model	BTCB0606-120	BTCB0606-200	BTCB0303-120	BTCB00303-200
Maximum number of input paths	6	6	3	3
Rated voltage of branch[V]	80	/	80	/
Branch rated current[A]	125	200	125	200
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)	516*300*136MM	516*300*136MM	516*300*136MM	516*300*136MM
Package Dimension(MM)	592*392*218MM	592*392*218MM	592*392*218MM	592*392*218MM

<sup>\*</sup>Conditions apply, refer to FelicityESS Warranty Letter.

### **Connection Diagram**

