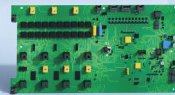
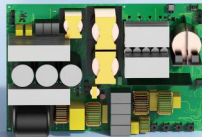


# Energy Storage Products



Convenient | Energy-efficient

# Balcony Solar ESS

Split Type Energy Storage  
Power Supply



## 3108Wh Extra-large Capacity

Supports up to 6 capacity pack expansions



## Multi-layer BMS Protection Design

Ensure normal operation of the machinery and extend the life of the battery



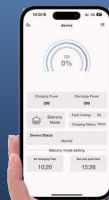
## Pure Sine Wave Output

More friendly to electrical appliances



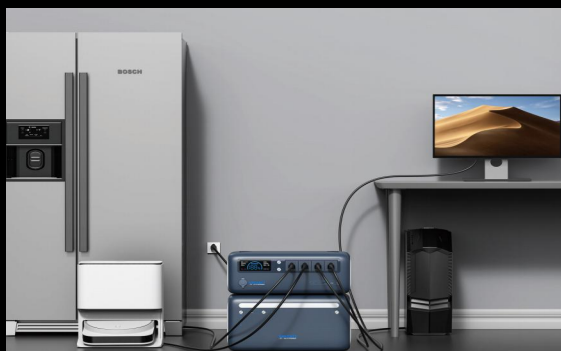
## Smart APP

Real-time monitoring of power information, capable of performing various operations



## Multiple Output Types, Supports Simultaneous Charging & Discharging

AC/USB-A/USB-C/Car Charger Output



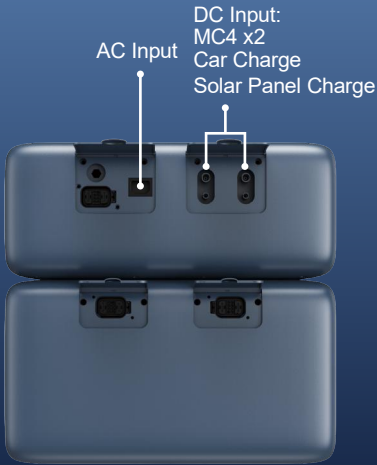


## Cycling Exceeds 3000 Times

High Efficiency and durability  
Battery capacity  $\geq 80\%$   
(After 3000 cycles)

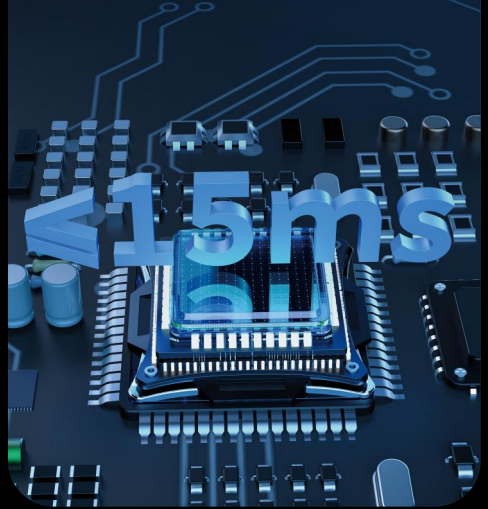


## Supports Multiple Charging Methods



## Supports UPS Functionality

Switching time  $\leq 15\text{ms}$



# Product Parameters



Host CHN



Host EU



Battery Capacity

Product Name	Balcony Solar ESS		Notes
Applicable Regions	China	Europe	
Model NO	YPE2500W/YPE3KW		Host/Battery Capacity
Power	2500W	2500W	
Battery Capacity	44.4V 70Ah 3108Wh		
Battery Type	LMFP		
Cycle Life	3000 times		Remaining battery capacity over 80%
Size	YPE2500W 44.8*27.7*18.5cm YPE3KW 44.8*27.7*25.1cm		
Weight	YPE2500 10.8KG YPE3KW 28KG		
Discharge Ambient Temperature	-10~40°C		
Charge Ambient Temperature	0~40°C		
AC Output	4 Each 2200W Total 2500W	4 2500W MAX	
USB-A Output	2+1	2+1	YPE2500W+YPE3KW Single MAX 18W
USB-C Output	2+1	2+1	YPE2500W+YPE3KW Single MAX 100W
Car Charge Output	1	1	MAX 120W
AC Input	1800W	1800W	
DC Input	1368W	1368W	Shared MC4
Car Charge Input	96W	96W	Shared MC4
Certification	EU: CE-RED, EN 62368-1, CE-LVD, CE-EMC, ROHS, REACH, UN38.3		

# Product Parameters



Host USA

Host JPN

Battery Capacity

Product Name	Balcony Solar ESS		Notes
Applicable Regions	USA	Japan	
Model NO	YPE2500W/YPE3KW		Host/Battery Capacity
Power	2500W		
Battery Capacity	44.4V 70Ah 3108Wh Rated		69.3Ah 3076Wh Min
Battery Type	LMFP		
Cycle Life	3000 times		Remaining battery capacity over 80%
Size	YPE2500W 44.8*27.7*18.5cm YPE3KW 44.8*27.7*25.1cm		
Weight	YPE2500W 10.8KG YPE3KW 28KG		
Discharge Ambient Temperature	-10~40°C		
Charge Ambient Temperature	0~40°C		
AC Output	4 Each 2400W Total 2500W	4 Each 2000W Total 2500W	
USB-A Output	2+1	2+1	YPE2500W+YPE3KW Single MAX 18W
USB-C Output	2+1	2+1	YPE2500W+YPE3KW Single MAX 100W
Car Charge Output	1	1	MAX 120W
AC Input	1800W	1500W	
DC Input	1368W	1368W	Shared MC4
Car Charge Input	96W	96W	Shared MC4
Certification	USA: FCC, UL1973, UL2743, RSS-247, RSS-102, ICES-003, ROHS, REACH, UN38.3 JPN: MIC, J62133, IEC 62040-1, IEC 62368, IEC 62109, ROHS, REACH, UN38.3		

# Product Parameters

(YPE3600 Understudied Item)



Host USA



Host JPN



Battery Capacity

Product Name	Balcony Solar ESS		Notes
Applicable Regions	USA	Japan	
Model NO	YPE3600W/YPE3KW		Host/Battery Capacity
Power	3600W		
Battery Capacity	44.4V 70Ah 3108Wh Rated		69.3Ah 3076Wh Min
Battery Type	LMFP		
Cycle Life	3000 times		Remaining battery capacity over 80%
Size	YPE3600W 44.8*27.7*18.5cm	YPE3KW 44.8*27.7*25.1cm	
Weight	YPE3600W 10.8KG	YPE3KW 28KG	
Discharge Ambient Temperature	-10~40°C		
Charge Ambient Temperature	0~40°C		
AC Output	3 2400W*2 3600W*1 Total 3600W	3 2000W*2 3300W*1 Total 3600W	
USB-A Output	2+1	2+1	YPE3600W+YPE3KW Single MAX 18W
USB-C Output	2+1	2+1	YPE3600W+YPE3KW Single MAX 100W
Car Charge Output	1	1	MAX 120W
AC Input	1800W	1500W	
DC Input	1368W	1368W	Shared MC4
Car Charge Input	96W	96W	Shared MC4
Certification	USA: FCC, UL1973, UL2743, RSS-247, RSS-102, ICES-003, ROHS, REACH, UN38.3 JPN: MIC, J62133, IEC 62040-1, IEC 62368, IEC 62109, ROHS, REACH, UN38.3		

## Portable Solar Power Panel



### Efficient Charging



Monocrystalline  
Solar Cells



Cell Efficiency  
23.2%



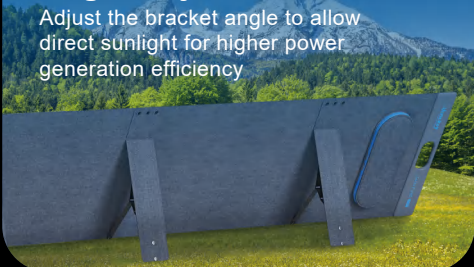
### Waterproof & Durable

IP67, Resistant to  
various harsh conditions



### Angle Adjustment

Adjust the bracket angle to allow  
direct sunlight for higher power  
generation efficiency



### Lightweight & Portable

Lightweight, foldable, and flexible for on-the-go  
charging for your devices





## Product Parameters



110W



220W

Product Name	HKE0100A-C	HKE0200A-C
Power	110W	220W
Cell Type	Monocrystalline Silicon	Monocrystalline Silicon
Efficiency	23.2%	23.2%
Weight	5.5KG	7.5KG
IP Rating	IP67	IP67
Vmp	20V	20V
Imp	6A	11A
Voc	25V	25V
Isc	7.5A	13.75A
Output Ports	MC4	MC4
Size (Deployed)	174*54*0.3cm	270*54*0.3cm
Size (Folded)	49*54*2cm	63*54*2cm
Operating Ambient Temperature	-10~65°C	-10~65°C
Warranty Period	2 Years	2 Years

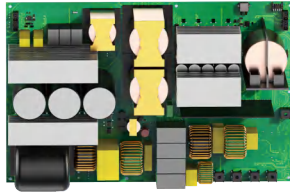
## Junction Box



- Easy Installation
- Compact Size
- Intelligent Switching
- Connects energy storage products to the home power grid
- Cost Saving

Product Name	Junction Box	Notes
Model NO	Junction Box-A	
Input Voltage	220Vac/230Vac	50/60Hz
Output Voltage	220Vac/230Vac	50/60Hz
Power	3680W	
Input/Output Current	16A	
Indicator Lights	2	Bypass Mode/Inverter Mode
Switching Time	20ms	
Size	224*135*94mm	
Weight	1.93KG	

# AC-DC/DC-AC Module



Product Name		AC-DC/DC-AC Module					
Power		2.5KW				3.6KW (Understudied Item)	
Applicable Regions		CHN	EU	USA	JPN	USA	JPN
AC-DC	Input Voltage	220V	230V	120V	100V	120V	100V
	Input Power	1800W	1800W	1800W	1500W	1800W	1500W
	Output Voltage	36.5-50.4V				36.5-50.4V	
	Efficient	92.8%	92.8%	93.1%	89.8%	93.1%	89.8%
DC-AC	Input Voltage	36.5-50.4V				36.5-50.4V	
	Output Voltage	220V	230V	120V	100V	120V	100V
	Output Power	2500W	2500W	2500W	2500W	3600W	3600W
	Efficient	94.4%	94.4%	92.5%	88%	92.5%	91.1%
Standby Power		18W					
Deep Sleep Current		≤100uA					
Over-temperature Protection		95°C					
Communication Type		URAT					
Protection Type		Over-voltage Protection, Under-voltage Protection, Over-current Protection, Short-circuit Protection, Over-load Protection, Over-temperature Protection					
Output Current Sampling Accuracy		5%(Pout ≥ 2000W)					
Output Power Sampling Accuracy		3W(Pout < 30W); 5W(30W ≤ Pout < 100W); 3%(Pout ≥ 100W)					
Temperature Sampling Accuracy		2°C					
Size		310*200*80.2mm			310*150*80.2mm		
Weight		3.40KG					

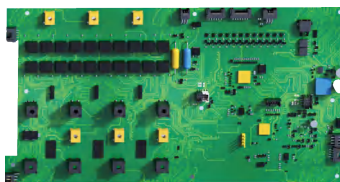
# DC-DC Module



Product Name	DC-DC Module	Notes
Port Type	MC4	
Input Range	10.5-16Vdc Max 8A	Car Charge
	17-72Vdc Max 24A	Solar Panel Charge
Input Power	1368W	Max
Output Range	36-50.4V	
Efficient	93%	
MPPT Efficient	99%	
Input Voltage Sampling Accuracy	0.3V/0.6V	No-load input voltage error within $\pm 0.3V$ range. Full-load input voltage error within $\pm 0.6V$ range.
Output Voltage Sampling Accuracy	0.5V	
Output Current Sampling Accuracy	0.5A	
Temperature Sampling Accuracy	2°C	
Standby Power	5W	
Communication Type	RS485	
Protection Type	Over-voltage Protection, Under-voltage Protection, Over-current Protection, Short-circuit Protection, Over-load Protection, Over-temperature Protection	
Size	200*140*39.5mm	
Weight	0.63KG	



# BMS Module



Product Name	BMS	Notes
Number of Batteries in Series	5-16 Series	
Over-temperature Protection	60°C	Can be modified through programming
	55°C	Can be modified through programming
Rated Current	90A	Max
Over-charge Protection Voltage	4.20V	Can be modified through programming
Over-discharge Protection Voltage	3.045V	Can be modified through programming
Current Sampling Accuracy	1%	Charge & Discharge
Voltage Sampling Accuracy	15mV	Low Voltage( $\leq 3V$ ). Single Cell
	10mV	High Voltage( $\geq 4V$ ). Single Cell
Temperature Sampling Accuracy	2°C	
Sleep Current	300uA	
Communication Type	RS485	
Protection Type	Over-charge Protection, Over-discharge Protection, Over-current Protection, Short-circuit Protection, Over-temperature Protection, Under-temperature Protection	
Size	283*151*13.5mm	
Weight	0.28KG	



- Manufacturer: ShenZhen Litu New Energy Technology Co.,Ltd
- Factory: ShenZhen Litu New Energy Technology Co.,Ltd
- Address: Room 1010, Block A, Rongchao Development
- Building, Long Gang District, Shenzhen City,
- [www.youth-power.net](http://www.youth-power.net)



Q YouthPower Lithium Battery



Q YouthPOWER Solar Battery  
OEM Factory



Q YouthPOWER Solar Battery  
OEM Factory



Q Youth Battery