



#### Available Photovoltaic roofing area

**30M<sup>2</sup>**  
Package configuration  
**6kW+**  
**5/10kWh**  
Solar Modules 6kW  
Energy Storage Configuration 5/10kWh  
PCS Configuration 10kw

**60M<sup>2</sup>**  
Package configuration  
**12kW+**  
**10/15kWh**  
Solar Modules 12kW  
Energy Storage Configuration 10/15kWh  
PCS Configuration 10kw

**90M<sup>2</sup>**  
Package configuration  
**18kW+**  
**15/20kWh**  
Solar Modules 18kW  
Energy Storage Configuration 15/20kWh  
PCS Configuration 10kw

#### 550W Photovoltaic panel



Mechanical Parameters	
Power Supply Layout	
Inverter Type	
Output Line	
Gloss	
Module Weight	
Module Size	

Packing Data (mm): 1100x1000x100 mm Net Weight (kg): 40.000000000000004 kg

1.2 meter cable, 10m for each side  
The weight, length and width of the product  
The specific packing requirements are determined by the customer.

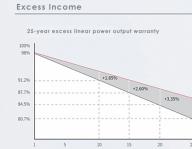
#### PCS Energie Storage Inverter + Energy Storage Battery



The world's first stackable Model All-in-one Design

<b>ELEGANT AND DECENT</b> Perfect Match Home Design Style	<b>SMART MONITOR</b> APP Controlation Smart Home Components	<b>CONFIGURE CAPACITY FLEXIBLY</b> SWH Modular Design Combined Capacity	<b>SIMPLE AND EFFICIENT INSTALLATION</b> 50% Improvements Anti-Crosswind Level	<b>LIFEPo4</b> Battery cells monitored and controlled by heat sensing
<b>SYSTEM</b>				
Product class: IP65 Weight: 60kg Size: 700*400*870mm, 3.440L Battery display method: LED Protect function: overcharge, overdischarge, short circuit, overcurrent, overvoltage, overtemperature, under voltage, under temperature, lightning protection, reverse connection Anticrosswind level: C3 Communication port: RS485/CAN				
<b>INVERTER</b>				
Input parameters (AC/DC): Maximum power: 11000W Power Tolerance: -0 ~ 3% DC input voltage range (DC current limited): 400V~1000V Maximum System Voltage: DC2500V (IEC61000) Maximum Total Rated Current: 25A Nominal Operating Temperature: 0~42°C Safety Protection Level: Class I Component Fire Rating: UL type: UL2 IEC Class: C Output parameters (AC/DC): Rated output power: 10kW Working Temperature: -20~50°C Working Humidity: <95% Working Altitude: <3000m Shipping/Storage Temperature: -30~60°C Shipping/Storage Humidity: 10%~95% Grid voltage: 220V/230V/240VAC Grid frequency: 50/60Hz ± 0.1Hz Maximum input current of each component: 20A Support multi-level parallel connection: YES				
<b>BATTERY</b>				
Cell Selected: Lithium Battery voltage: 51.2V Battery capacity: 100Ah Nominal voltage: 1P16S Nominal capacity: 5kWh Total: 740Ah Weight: 57kg Voltage Range: 46.4-58.4V Overcharge Protection Current: 5A Maximum Charging Current: 52A Maximum Discharging Current: 104A Continuous Charge Rate: 0.045A/Sec More Cycles: 6000/25°C Certification: UN38.3				

21.7% High Conversion Efficiency 0~3% Power Tolerance <2% Decreased Efficacy in the First Year 0.55% Efficacy Decays in 2-5 Years Half-chip Technology Lower Temperature Coefficient



Working Parameters	
Operating Temperature: -40°C ~ +80°C	
Power Tolerance: -0 ~ 3%	
DC input voltage range (DC current limited): 400V~1000V	
Maximum System Voltage: DC2500V (IEC61000)	
Maximum Total Rated Current: 25A	
Nominal Operating Temperature: 0~42°C	
Safety Protection Level: Class I	
Component Fire Rating: UL type: UL2 IEC Class: C	

• High-quality Warranty Components for Long-term Reliability

• A variety of advanced technologies improve component power and efficiency



**光储一体化 智慧家庭云端系统**

屋顶可用光伏面积

<b>30 M<sup>2</sup></b>
套餐配置 6kW+ 5/10kWh
光伏组件 6kW 储能配置 5/10kWh PCS配置 10kw

<b>60 M<sup>2</sup></b>
套餐配置 12kW+ 10/15kWh
光伏组件 12kW 储能配置 10/15kWh PCS配置 10kw

<b>90 M<sup>2</sup></b>
套餐配置 18kW+ 15/20kWh
光伏组件 18kW 储能配置 15/20kWh PCS配置 10kw

**550w 光伏板**

**机架参数**

电池排列	144块×2列
单机容量	550Wp, 500Wdc, 490Wdc, 350Wdc
输出线	4mm <sup>2</sup> , 400, 200mm, 1±100mm
环境温度	-40℃~+80℃
重量	单块: 3.3kg/m <sup>2</sup> 单片化玻璃
尺寸	单片: 1366mm×660mm
重量	27.5kg
尺寸尺寸	2278x1144x35mm
包装信息	3150x11550x2050mm, 620kg, 400kg
备注	*1125W(1220W和1020W的平均值), 额定功率是1125W。

**PCS储能变流器+储能电池**

**全球第一款堆叠款 PCS一体机设计**

**逆变器**

输入输出 (交流)	输出功率 (交流)
最大功率	11000W
额定功率	6000W
启动电压	120Vdc
工作电压	220Vdc
MPP工作电压范围	120~500Vdc
输出接线端子输入输出	20A
输出接口	RJ45/RS485/RS485

输出输出 (直流)	额定输出功率
最大功率	11000W
额定输出功率	51.2V
最大输出功率	10kW
最大输出电流	50A
输出接线端子	DC400mm
输出接线端子	DC400mm

\*注：以上数据均基于单机，模块化设计请参考

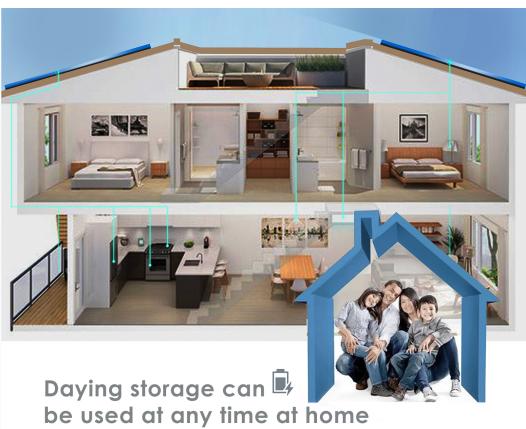
**工作参数**

工作温度	-40℃~+80℃
过热公差	0~3%
工作湿度	0~95%
最大输出功率	OC2500W (IEC61400)
最大输出额定电流	25A
额定工作温度	40±2°C
安全防护等级	Class I
组件耐压级	UL type II, IEC Class C

**超群收益**

• 高品质保证组件长期可靠性  
• 多种先进技术提升组件功率、效率

**认证**



Energy Storage Capacity	Available Load	Central Air Conditioning	Air Conditioning	Refrigerator	Washing Machine	Lighting	Fish Tank Power Supply	Micro-wave Oven
5kWh	1.25h	5h	35h	8.25h	50h	10h	3.5h	
10kWh	2.5h	10h	70h	16.5h	100h	20h	7h	
15kWh	3.75h	15h	105h	24.75h	150h	30h	10.5h	
20kWh	5h	20h	140h	33h	200h	40h	14h	

\* Above data comes from Chinese Energy Industry.

### "PORPHET" Cloud Platform

A reliable, visualized and extreme safe energy system  
500,000 new energy vehicle batteries monitoring platform



### Fully Closed-loop Management Process



**ELECSTO**



## Smart Photovoltaic and Energy Storage System Solution

[www.elecstoenergy.com](http://www.elecstoenergy.com)





储能容量	可供 负载	中央空调	空调	冰箱	洗衣机	照明	鱼缸供电	微波炉
5kWh		1.25h	5h	35h	8.25h	50h	10h	3.5h
10kWh		2.5h	10h	70h	16.5h	100h	20h	7h
15kWh		3.75h	15h	105h	24.75h	150h	30h	10.5h
20kWh		5h	20h	140h	33h	200h	40h	14h

\*注：以上数据来源于成都市源实测

### “先知”云平台

能源系统可视化，效益更直观，50万台新能源汽车电池监控平台背景，安全性极高



### 全闭环管理流程



ELECSTO

户用

## 光储一体化 智慧家庭云端系统

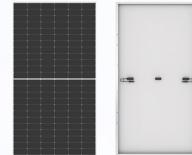
www.elecstoenergy.com  
web

## Outdoor Integrated Cabinet Solution

Chengchuan Energy Technology Co., Ltd. is a smart energy service provider, focusing on the research and development, manufacturing and sales of electrochemical energy storage products. Chengchuan is focusing on the field of user-side energy storage, we use big data cloud platforms to provide industrial and commercial users with safe, efficient, stable, and cost-effective energy solutions, becoming the main force of energy transformation, helping users increase efficiency, and contribute to the national "30·60" strategy.



## 550W Photovoltaic panel



### Mechanical Parameters

Power Supply Layout		144 (S×24)	
Junction Box		Top left junction box, 1P68, 300 diode	
Output Line		Wire length can be customized	
Glass		Mono Glass, 3.2mm Tempered Glass	
Frame		Anodized Aluminum Alloy Frame	
Module Size		2278X1134X35mm	
Module Weight		31.0kg/piece/pack; 1550kg/2091.420kg/400kg	

SDSP01/13.5m Hardbed truck; 1550kg/2091.420kg/400kg

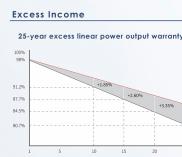
(1) It needs to be transported by truck or trailer. The specific loading capacity shall be subject to the actual arrival.

## Intelligent energy storage cabinet



Electrical Performance Parameters		STC:AM1.5 1000W/m <sup>2</sup> 25°C		NOCT - AM1.5 800W/m <sup>2</sup> 20°C 1m/s		Maximum Power Test Uncertainty	
Module Type	540Wp	540Wp	550Wp	550Wp	550Wp	560Wp	560Wp
Test Condition	STC NOCT STC NOCT STC NOCT STC NOCT						
Max. Power	540 540 540 540 550 550 550 550	540 540 540 540 550 550 550 550	540 540 540 540 550 550 550 550	540 540 540 540 550 550 550 550	540 540 540 540 550 550 550 550	540 540 540 540 550 550 550 550	540 540 540 540 550 550 550 550
Open-Circuit Voltage	49.50 49.54 49.55 49.56 49.58 49.60 49.61 49.62	49.50 49.54 49.55 49.56 49.58 49.60 49.61 49.62	49.50 49.54 49.55 49.56 49.58 49.60 49.61 49.62	49.50 49.54 49.55 49.56 49.58 49.60 49.61 49.62	49.50 49.54 49.55 49.56 49.58 49.60 49.61 49.62	49.50 49.54 49.55 49.56 49.58 49.60 49.61 49.62	49.50 49.54 49.55 49.56 49.58 49.60 49.61 49.62
Short-Circuit Current	13.85 11.20 13.92 11.25 13.98 11.31 14.04 11.35	13.85 11.20 13.92 11.25 13.98 11.31 14.04 11.35	13.85 11.20 13.92 11.25 13.98 11.31 14.04 11.35	13.85 11.20 13.92 11.25 13.98 11.31 14.04 11.35	13.85 11.20 13.92 11.25 13.98 11.31 14.04 11.35	13.85 11.20 13.92 11.25 13.98 11.31 14.04 11.35	13.85 11.20 13.92 11.25 13.98 11.31 14.04 11.35
Peak Power Voltage	41.05 38.69 41.80 38.83 41.95 38.97 42.10 39.33	41.05 38.69 41.80 38.83 41.95 38.97 42.10 39.33	41.05 38.69 41.80 38.83 41.95 38.97 42.10 39.33	41.05 38.69 41.80 38.83 41.95 38.97 42.10 39.33	41.05 38.69 41.80 38.83 41.95 38.97 42.10 39.33	41.05 38.69 41.80 38.83 41.95 38.97 42.10 39.33	41.05 38.69 41.80 38.83 41.95 38.97 42.10 39.33
Peak Power Current	12.07 10.43 13.04 10.46 13.12 10.96 13.19 10.61	12.07 10.43 13.04 10.46 13.12 10.96 13.19 10.61	12.07 10.43 13.04 10.46 13.12 10.96 13.19 10.61	12.07 10.43 13.04 10.46 13.12 10.96 13.19 10.61	12.07 10.43 13.04 10.46 13.12 10.96 13.19 10.61	12.07 10.43 13.04 10.46 13.12 10.96 13.19 10.61	12.07 10.43 13.04 10.46 13.12 10.96 13.19 10.61
Module Efficiency%	20.9	21.1	21.3	21.5	21.7	21.9	22.1

21.7% High Conversion Efficiency  
0~3% Power Tolerance  
<2% Decreased Efficiency in the first year  
0.55% Efficiency Decays in 20-25 Years  
Half-chip Technology, Lower Temperature Coefficient



### Working Parameters

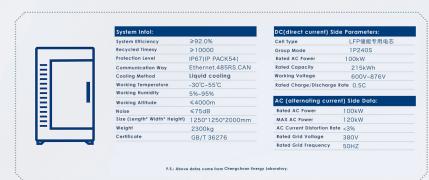
Operating Temperature	-40°C~+85°C
Power Tolerance	0~3%
Open-Circuit Voltage Tolerance	±3%
Short-Circuit Current Tolerance	±3%
Maximum System Voltage	DC1000V(AC440V)
Maximum Fuse Rated Current	20A
Nominal Operating Temperature	45±2°C
Safety Protection Level	Class II
Component Rating	UL 1703 & IEC Class C

\* High-quality Warranty Components for Long-term Reliability  
\* A variety of advanced technologies improve component power and efficiency



DC/AC Current Side Parameters	
Cell Type	15PBB半黑板电芯
Cell Model	152500
Rated AC Power	100kW
Rating	175kWh
Working Voltage	200V~375V
Rated Charge/Discharge Rate	0.5C
AC (Off-Grid) Current Side Parameters	
Rated AC Power	100kW
Max AC Power	130kW
AC Current Protection Rate	>3%
AC Current Protection Range	300V~380V
Rated Grid Frequency	50Hz

P.L. Above data come from Chengchuan Energy Laboratory.

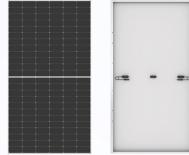


## 户外一体柜解决方案

上海橙川能源技术有限责任公司是一家智慧能源服务商，专注于新能源行业电气化储能产品的研发、制造、销售。聚焦用户侧储能领域，利用大数据云计算，为工商业用户提供安全、高效、稳定、极具性价比的用能解决方案，为企业降本增效助力，为国家“3060”战略添砖加瓦。



## 550W光伏板

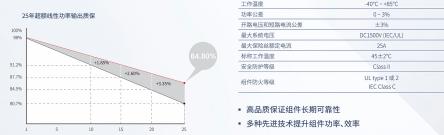


机械参数					
组件型号					144(8×24)
逆变器	分体式机架式，IP65壳体，三合一逆变				
玻纤线	4mm²	1.5m	1.5m	1.5m	1.5m
玻璃	单玻，3.2mm钢化玻璃				
边框	阳极氧化铝边框，强度高，耐腐蚀				
边框重量	1.2kg				
前承尺寸	2278×1134×310				
包装信息	3100件，1550×2010件箱，620件/40尺集装箱 1213Kg/片(220片装箱), 1000W/片, 1.68W/kg, 2.5%温升率				

电性能参数 STC:AM1.5 1000W/m <sup>2</sup> 25°C NOCT:AM1.5 800W/m <sup>2</sup> 20°C 1m/s					
	540Wp	540Wp	550Wp	550Wp	560Wp
测试条件	STC NOCT				
最大功率 (Pmax/W)	540	540	540	540	540
开路电压 (Voc/V)	49.50	49.54	49.58	49.60	49.63
短路电流 (Isc/A)	13.85	11.20	13.92	11.98	11.21
峰值功率电压 (Vm/V)	41.05	38.69	41.80	38.83	41.95
峰值功率电流 (Im/A)	12.97	10.43	13.94	10.46	13.32
组件效率 (%)	20.9	21.1	21.3	21.5	21.7



21.7% 最高转换效率 0~3% 功率公差 <2% 首年功率衰减 0.55% 2~25 年每年功率衰减 半片技术 更低的温度系数



25年线性功率衰减率 84.80%

● 高品质保证组件长期可靠性  
● 多种先进技术提升组件功率、效率

## 智能储能柜



系统信息：		直流参数：	
电池类型	磷酸铁锂电池	额定电压	100VDC
总容量	10000Ah	额定输出功率	1000W
防护等级	IP67/IP68	额定交流功率	210kW
通信协议	Modbus-485RS485 CAN	额定电压	220VAC~380VAC
外壳形式	箱体	工作电压	0.5kV~1kV
最大壳内温度范围	-30°C~55°C	工作频率	<4000Hz
额定工作温度	45±2°C	额定功率	≤7kW
安全防护等级	Cissell II	尺寸	1200mm×2000mm
相对湿度	0~95% RH	重量	2300kg
储存环境	0~40°C	风量	0.07~0.27m³/s
寿命	10~15年	温控策略	恒温/温控

\*注：以上数据来源于橙川能源实验室

## Energy Storage



Shanghai Jiao Tong University  
Research Institute Energy Storage Project  
200kw/430kwh

Peak shaving and valley filling,  
Variable energy project expansion



Cut peaks and fill valleys to  
reduce electricity cost.

## "Prophet" cloud platform

A reliable system, visualizing the energy system,  
making more intuitive benefits.



4008681618  
Mob

## 典型项目展示



## “先知”云平台

能源系统可视化，效益更直观，系统更可靠



### “大数据预警监控平台”

极致电池安全管理系統，提前预警系统潜在风险，让预防更早，应对更及时，系统更安全。

<10s 秒级故障定位 +5% 系统寿命 +3% 放电深度

### 运维策略

流程化、标准化运维



提供风险定位与操作指导，精准解决潜在风险，有效缩短故障恢复时间，减少运维支出与时间成本。

### 诊断报告

自动全面体检，关注健康状态



储能系统整体评估、主要性能分析、运行统计三位一体，细致排查毫秒级风险。

### 全闭环管理流程



工商业  
光储一体化  
解决方案

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