

# SHUANG DENG GROUP

SMART ENERGY  
EFFICIENCY MANAGEMENT  
EXPERT



HIGH-TECH  
SMART ENERGY

ECO-FRIENDLY  
GLOBAL

**LOW VOLTAGE BATTERY STORAGE  
FOR RESIDENTIAL APPLICATION**



## ABOUT SHOTO



Shoto is a leading manufacturer of green energy storage solutions. Since its founding in 1990, Shoto has built solid expertise in the field of energy storage and has become a convinced supporter of green energy. Shoto has successfully expanded its solutions for telecoms, data centers, energy storage systems and renewable energies worldwide with branches in all continents and more than 100million satisfied customers.

As one of the world's largest manufacturers of lead-acid batteries and lithium, Shoto has more than 30 years of experience and is one of the "China Top 100 Electronic Information Enterprises" and one of the "World Top 500 New" Energy Companies. SHOTO offers the highest safety and performance standards for battery solutions for private households and commercial purposes.

### WHY SHOTO?

#### Vertical industry integrated

Self-designed and self-manufactured LFP cell, pack and rack to ensure the highest safety.

#### Modular design

Thanks to its modular and scalable design, it can be expanded to meet future energy requirements.

#### Longer life

More than 5000 cycles with 90% DOD and 10+ years design life.

#### Matching flexibility

Compatible with the most universal hybrid inverters.

#### Easy installation

Simple rack mounted structure to reduce the installation time and cost.



## SYSTEM FUNCTION



Solar energy preferably used by domestic appliances, and additional Energy is stored in battery.



During the day, when battery is fully charged, the additional energy produced by solar can be sold and fed into the public



At evening, the energy stored in the battery supplies electricity to the domestic appliances.



At night, when the energy stored in the battery is depleted, the public grid supplies energy to the domestic appliances.



## PRODUCT PARAMETER

Model	48-100	51.2-100
Nominal Capacity (kWh)	4.8	5.12
Depth of Discharge	90%	
Usable Capacity (kWh)	4.32	4.6
Cycle Life	$\geq 5000$ @25 °C	
Charge Voltage (V)	54	57.6
Discharge Voltage (V)	45	48
Nominal Voltage (V)	48	51.2
Max Parallel Quantity (Pcs)	16	
Charge/Discharge Current(A)	Recommend 50 (0.5C)	
	Max 100 (1C)	
Communication Port	RS485 & CAN	
Weight (Kg)	41	43
Dimensions (W*H*D)mm	442*133*420	
Operating Temperature	Charge -5°C~+45°C	
	Discharge -20°C~+50°C	
Recommend Operating Temperature	Charge +15°C~+35°C	
	Discharge +15°C~+35°C	
	Storage -20°C~+35°C	
Humidity	5%-95%	
Altitude	$\leq 4000\text{m}$	
Certificate	TUV(IEC 62619)/CE-EMC/UN38.3	
Compatible Inverters	Growatt,Goodwe,Victron,Deye,Sofar and more brands to be announced	





Build everlasting shoto brand

Create national industry model

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