

**SMARTER ENERGY
FOR A BETTER LIFE**

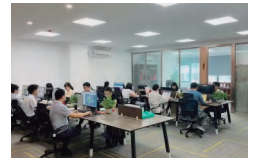
**Estarline Renewable Solar Energy
Private Limited**

COMPANY PROFILE



Starline is a leading manufacturer and supplier of high-quality lighting solutions and lithium batteries, dedicated to providing sustainable, energy-efficient, and cost-effective systems. With a strong commitment to innovation and environmental responsibility, we specialize in designing and producing solar-powered street lights that enhance public safety, reduce carbon footprints, and lower energy costs.

Since our establishment in 1998, we have expanded our reach across various states, delivering reliable solar lighting solutions for urban, rural, and industrial applications. Our products are engineered to withstand harsh weather conditions while ensuring optimal performance and longevity.



LiFePO4 battery

Perfect replacement for lead-acid batteries



EStarline India Batteries

Depth of Discharge 100%

Number of cycles > 6000

Life span >10 years

Reduced 2/3 weight

Built-in BMS

Pollution-free



Lead Acid

Depth of Discharge 50%

Number of cycles < 500

Life span is about 3 years

3 Times the Weight

No BMS

Lead pollution

Battery characteristics

Low self-discharge rate

Grade A Cells

CE,ROHS, MSDS,UN38.3 And Others

Safe and reliable

Widely used



Photovoltaic energy storage



Energy storage power station

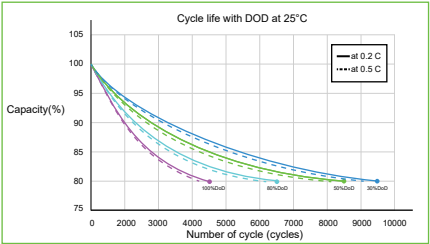
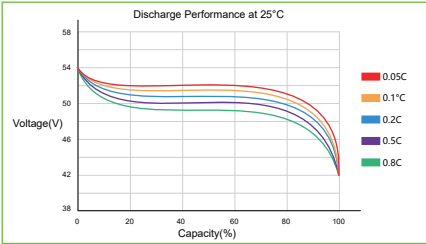


Boats



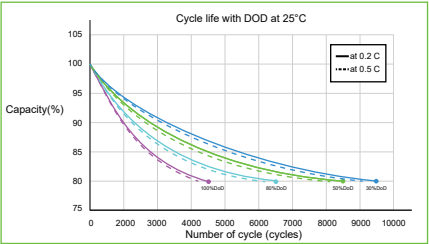
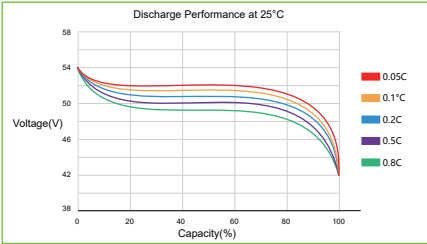
Electric vehicle

12.8V - 100Ah/200Ah



Battery Pack Description Items	Specification	
Model NO.	ESS12100	ESS12200
Typical Capacity	100Ah	200Ah
Nominal Voltage	12.8V	
Discharging Voltage (Min)	10V	
Charging Voltage(Max)	14.6±0.05V	
Charging Current(Std)	50A	100A
Discharging Current(Std)	50A	100A
Max Charging Current	100A	200A
Discharging Current(Max/Peak 3s)	200A	400A
Max continuous Discharging Current	100A	200A
Battery Internal Impedance	≤20mΩ	≤15mΩ
Cell Combination Method	4S1P	
Battery Dimension	330*172*215mm	520*238*222mm
Battery Weight	10.6kg	20kg
Battery Cycle life	≥6000 times 0.5C ₅ A 80% DOD	
Protection grade	IP55	

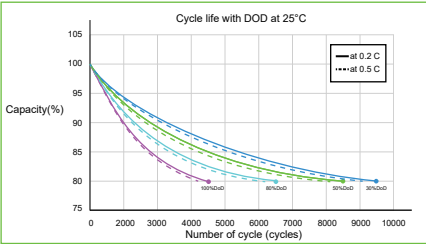
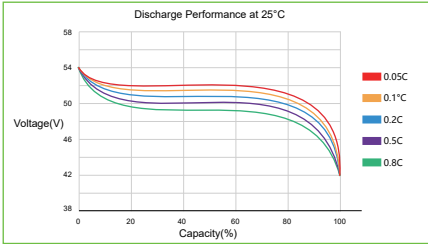
25.6V - 50Ah/100Ah/200Ah



Battery Pack Description Items	Specification		
Model NO.	ESS2550	ESS25100	ESS25200
Typical Capacity	50Ah	100Ah	200Ah
Nominal Voltage	25.6V		
Discharging Voltage (Min)	10V		
Charging Voltage(Max)	29.2±0.05V		
Charging Current(Std)	25A	50A	100A
Discharging Current(Std)	25A	50A	100A
Max Charging Current	50A	100A	200A
Discharging Current(Max/Peak 3s)	100A	200A	400A
Max continuous Discharging Current	50A	100A	200A
Battery Internal Impedance	≤25mΩ	≤20mΩ	≤15mΩ
Cell Combination Method	4S1P		
Battery Dimension	330*172*215mm	520*238*222mm	520*267*217mm
Battery Weight	10.2kg	20.8kg	38kg
Battery Cycle life	≥6000 times 0.5C ₅ A 80% DOD		
Protection grade	IP55		

ESS5000M/ESS10000M

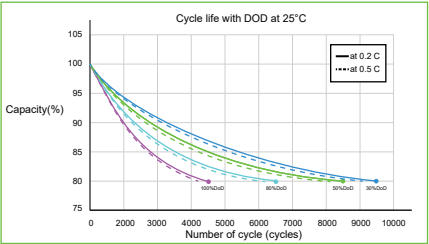
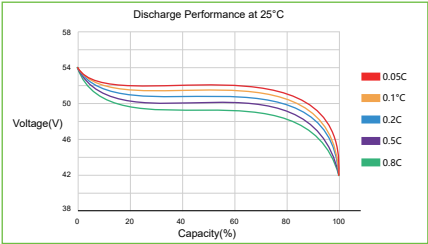
Rack mounted energy storage battery



Battery Pack Description Items	Specification		
Model NO.	ESS5000ML	ESS5000M	ESS10000M
Typical Capacity	200Ah	100Ah	200Ah
Nominal Voltage	25.6V	51.2V	
Discharging Voltage (Min)	22.4V	45.3V	
Charging Voltage(Max)	29.2±0.05V	58.4±0.05V	
Charging Current(Std)	100A	50A	100A
Discharging Current(Std)	100A	50A	100A
Max Charging Current	200A	100A	200A
Discharging Current(Max/Peak 3s)	400A	200A	400A
Max continuous Discharging Current	200A	100A	200A
Battery Internal Impedance	≤40mΩ	≤30mΩ	≤20mΩ
Cell Combination Method	8S2P	16S1P	
Battery Dimension	550*440*176mm	550*440*176mm	680*440*176mm
Battery Weight	53kg	49kg	71.5kg
Battery Cycle life	≥6000 times 0.5C ₅ A 80% DOD		
Protection grade	IP30		

ESS5000W/ESS10000W

Wall-mounted Home Energy Storage



Battery Pack Description Items		Specification		
Model NO.	ESS5000WL	ESS5000W	ESS10000W	
Typical Capacity	200Ah	100Ah	200Ah	
Nominal Voltage	25.6V	51.2V		
Discharging Voltage (Min)	22.4V	45.3V		
Charging Voltage(Max)	29.2±0.05V	58.4±0.05V		
Charging Current(Std)	100A	50A	100A	
Discharging Current(Std)	100A	50A	100A	
Max Charging Current	200A	100A	200A	
Discharging Current(Max/Peak 3s)	400A	200A	400A	
Max continuous Discharging Current	200A	100A	200A	
Battery Internal Impedance	≤40mΩ	≤40mΩ	≤30mΩ	
Cell Combination Method	8S2P	16S1P		
Battery Dimension	580*440*180mm	580*360*160mm	600*400*240mm	
Battery Weight	54.5kg	54.5kg	80kg	
Battery Cycle life	≥6000 times 0.5C ₅ A 80% DOD			
Protection grade	IP30			

EPS10000

All-in-one home energy storage

- 5/10KWh of LiFePO4 battery
- 5.5KW-10KW pure sine wave inverter



Item Description	EPS-10000-SN1		EPS-10000-SN2		EPS-10000-SN3	
Battery Module	1		2		3	
Battery Energy	5.12KWh		10.24KWh		15.36KWh	
Battery Capacity	100Ah		200Ah		300Ah	
Total Weight	70kg		120kg		170kg	
Dimension L x D x H(mm)	580x260x900		580x260x1320		580x260x1740	
Battery Type	LiFeP04					
Battery Rated Voltage	51.2V					
Battery Working Voltage Range	42-58.4V					
Maximum Charging Current	100A					
Maximum Discharging Current	100A					
Parallel Quantity	1~15					
Designed Life-span	6000					
	European Regulations				American Regulations	
PV CHARGE						
Solar Charge Type	MPPT					
Maximum Output Power	5.5KW	6.2KW	8KW	5KW	10KW	
PV Charging Current Range	80A	120A	80A	80A	200A	
PV Operating Voltage Range	Max 500V DC					
MPPT Voltage Range	120-450V DC					
AC CHARGE						
Maximum Charge Power	5.5KW	6.2KW	8KW	5KW	10KW	
AC Charging Current Range	≤40A	≤40A	≤60A	≤40A	≤80A	
Rated Input Voltage	230V AC				120V AC	
Input Voltage Range	170-280V AC				90-140V AC	
AC OUTPUT						
Rated Output Power	5.5KW	6.2KW	8KW	5KW	10KW	
Frequency	50Hz				60Hz	
GENERAL DATA						
Communication	RS485/CAN/WIFI					
Operation Humidity	5% ~ 85%					
Ingress Protection Rating	IP20					
Certification	UN38.3,MSDS,IEC,CE,RoHS					



Redefine the Future with Energy

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