

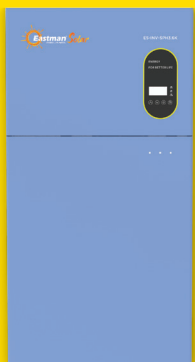


The **WISE** Choice

## EASTMAN WORLD

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Welcome to Eastman World - Your Global Partner in Energy Solutions!



## ENERGY STORAGE SYSTEM

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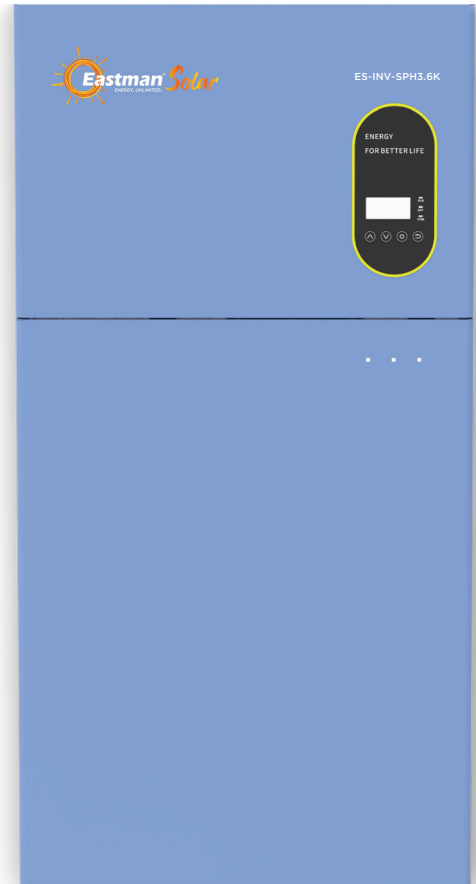
Single Phase - 3.6 kW

## ENERGY STORAGE SYSTEM SINGLE PHASE

3.6 kW

Introducing our residential Energy Storage System, an advanced solution that combines an inverter and battery module into one system. Designed with high reliability, performance, and intelligence in mind, this system offers seamless energy storage capabilities for all your energy needs.

PRODUCT MODEL	
INVERTER	ES-INV-SPH3.6K
+	
BATTERY	ES-BAT-4.8S



### Product Features



#### HIGH PERFORMANCE

- 200% PV over management.
- Max. efficiency 97.3%, Battery efficiency 97%.
- Load monitoring accuracy 10W, Battery discharging threshold 10W.
- UPS level redundant protection against backup load breakdown.



#### HIGH RELIABILITY

- Three-level firmware and two-level hardware battery protection.
- Multiple temperature monitoring, delicate thermal management.
- Max. 6 Inverters in parallel to increase power availability.



#### HIGH INTELLIGENCE

- Internal EMS optimizes home energy supply automatically.
- PV production forecast.
- Built-in electric power service, FCAS, VPP, etc.
- Online monitoring, online diagnosis, online service.

# ENERGY STORAGE SYSTEM (SINGLE PHASE)



## Product Specifications

INVERTER MODEL	ES-INV-SPH3.6K
<b>PV INPUT</b>	
Max. PV Input Power	7.36kW
Max. PV Input Voltage	580V
MPPT Range	100~550V
Max. Input Current	15A / 15A
Max. Short Circuit Current	18.75A / 18.75A
MPPT Trackers	2
Strings Per MPPT Tracker	1 / 1
<b>AC PORT</b>	
Rated Grid Output Power	3.68kVA
Max. Grid Input Power	7.36kVA
Rated Grid / Backup Voltage	230Vac
Rated Grid / Backup Frequency	50/60Hz
Surge Backup Power	7.36kVA
Rated Backup Power	3.68kVA
THDi	<3%
THDv	<3% (Linear Load) / <5% (Non-linear Load)
DCV	<100mV
Crest Ratio	3 : 1
Transfer Time	<10ms
<b>EFFICIENCY</b>	
Max. Efficiency	97.3%
Max. Round Trip Efficiency	90%
<b>GENERAL DATA</b>	
Operating Temperature Range	-20~60°C
Topology	Transformerless
Dimensions (W*H*D)	590×405×205mm
Weight	19.5kg
Load Monitoring	Meter / CT / Backup box
External Communication	RS-485 / WIFI / 4G / Ethernet
Grid Regulation	VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020
	UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477-1:2012
BATTERY MODEL	ES-BAT-4.8S
<b>Battery Type</b>	
Battery Type	LFP
Battery Capacity	4.8kWh
Usable Capacity	4.6kWh
Depth of Discharge (DoD)	95%
Nominal Battery Voltage	96V
Operating Voltage Range	90~108V
Max. Charging Current	50A
Max. Discharging Current	50A
Operating Temperature Range	Charge:0°C<50°C / Discharge:-10°C<T<50°C
Cycle Lifetime	8000
Parallel / Series	1 ~ 4 in series
Dimensions (W*H*D)	590×430×205mm
Weight	53.4kg
Colour	White
Communication	CAN / RS-485 (Optional)
Safety Regulation	IEC 62619:2017, IEC 62040:2017
Transportation	UN38.3
SYSTEM	
Operating Altitude	≤3000m (>3000m Derating)
Relative Humidity	0~95% (No Condensing)
Protection Degree	IP65
Cooling	Natural Convection
Noise	<30dB
Warranty	5 years / 10 years
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3

Product Specification are subject to change without prior notice



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