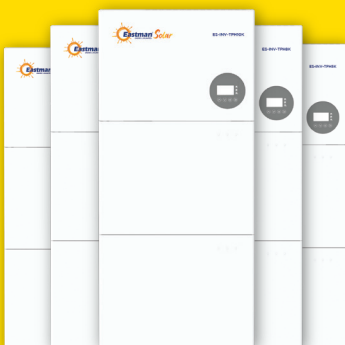




The **WISE** Choice

EASTMAN WORLD

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



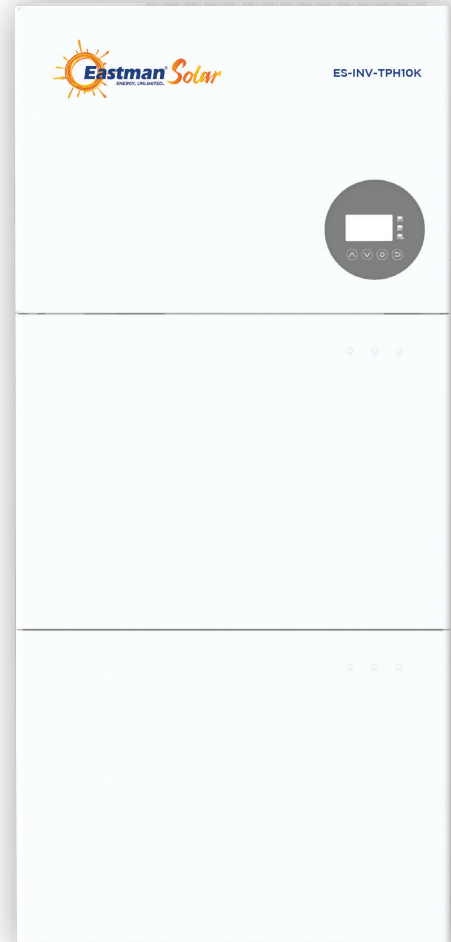
ENERGY STORAGE SYSTEM

Three Phase - 4 / 5 / 6 / 8 / 10 kW

ENERGY STORAGE SYSTEM THREE PHASE

4 / 5 / 6 / 8 / 10kW

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-TPH4K ES-INV-TPH5K ES-INV-TPH6K ES-INV-TPH8K ES-INV-TPH10K
+	
BATTERY	ES-BAT-4.8S Can Be Extended

Product Features



HIGH PERFORMANCE

- 200% PV over management.
- Max. efficiency 98%, Battery efficiency 96%.
- 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. 3 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 (THREE PHASE)



Product Specifications

INVERTER MODEL	ES-INV-TPH4K	ES-INV-TPH5K	ES-INV-TPH6K	ES-INV-TPH8K	ES-INV-TPH10K
PV INPUT					
Max. PV Input Power	8kW	10kW	12kW	16kW	20kW
Max. PV Input Voltage	1100V				
MPPT Range	140~950V				
Max. Input Current	16A / 16A / 16A				
Max. Short Circuit Current	24A / 24A / 24A				
MPPT Trackers	3				
Strings Per MPPT Tracker	1 / 1 / 1				
AC PORT					
Rated Grid Output Power	4kVA	5kVA	6kVA	8kVA	10kVA
Max. Grid Input Power	8kVA	10kVA	12kVA	16kVA	20kVA
Rated Grid / Backup Voltage	220/380Vac, 230/400Vac, 3/N/PE				
Rated Grid / Backup Frequency	50/60Hz				
Surge Backup Power	8kVA	10kVA	12kVA	16kVA	20kVA
Rated Backup Power	4kVA	5kVA	6kVA	8kVA	10kVA
THDi	<3%				
THDv	<3% (Linear Load) / <5% (Non-linear Load)				
DCV	<100mV				
Crest Ratio	3 : 1				
Transfer Time	<10ms				
EFFICIENCY					
Max. Efficiency	98%	98%	98.2%	98.4%	98.4%
Max. Round Trip Efficiency	96%				
GENERAL DATA					
Operating Temperature Range	-20~60°C				
Topology	Transformerless				
Dimensions (W*H*D)	590×416×205mm				
Weight	25kg				
Load Monitoring	Meter / CT / Backup box				
External Communication	RS-485 / WIFI / 4G / Ethernet				
Grid Regulation	VDE-AR-N 4105:2018, G98, 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, Erzeuger Type A, PPDS, NCRfG				
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2				
BATTERY MODEL					
ES-BAT-4.8S					
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	1~6 in series				
Dimensions (W*H*D)	590×430×205mm				
Weight	53.4kg				
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				



www.eastmanworld.com
marketing@eastmanworld.com

AMPS MIDDLE EAST FZ LLC

#703, 7TH Floor, Deira Twin Tower,
Baniyas Square, Deira, Dubai (UAE)

EASTMAN AUTO & POWER LTD.

ASF Towers, 249, Udyog Vihar Phase-4, Gurugram,
Haryana-122016, India

GUANGDONG EASTMAN NEW ENERGY CO., LTD

#1602, Meilan business centre, Intersection of Xixiang Avenue
and Qianjin Second Road, Bao'an, District, Shenzhen-518102, China

Follow us on »  @eastman_world  @EastmanWorld  @EastmanWorld