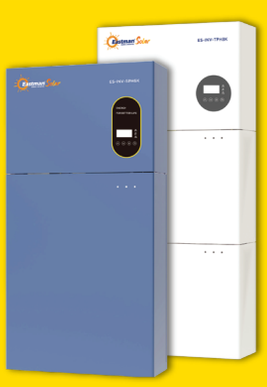
Eastman®
ENERGY. UNLIMITED.

A GREEN INNOVATION FROM EASTMAN GROUP

The WISE Choice

EASTMAN WORLD

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



ENERGY STORAGE SYSTEM

Single Phase
3.6 kW

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

Eastman Introduction

Founded in 2006

Established in 2006, Eastman Auto & Power Limited is a well-known name in the field of solar energy, energy storage, and power electronics, boasting a USD 300 million revenue and a dedicated workforce of over 3,000 professionals. Building on the group's decades-long success and maintaining the trust of our partners, Mr. Jagdish Rai Singal ventured into the future of energy with Eastman Auto & Power Limited. Today, the business spans over 25 countries across Asia and Africa, providing the world with cutting-edge products that have set new benchmarks in their respective segments. Driven by innovation, we continually set industry standards, ensuring uninterrupted power supply for residential, commercial, and industrial applications.

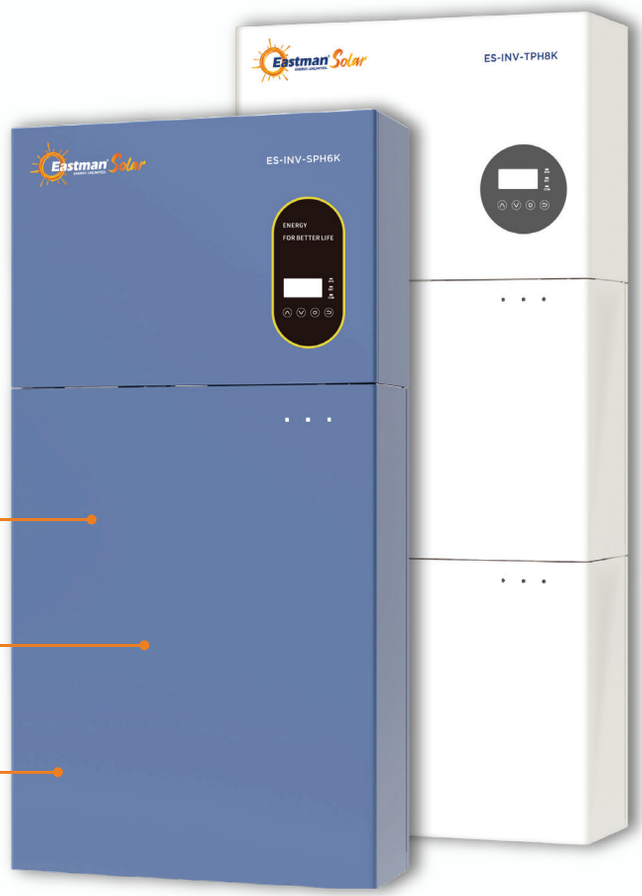
Our global solar distribution business provides reliable and high-quality solar solutions, including solar inverters, solar panels, solar batteries (tubular, carbon, gel and lithium) solar pump inverters, solar charge controllers, and more. Our products offer a range of solutions to help you make the switch to clean energy. With us as your unwavering partners, we forge a sustainable future, amplifying global excellence through transformative products and services.

ENERGY STORAGE SYSTEM

Experience a continuous flow of clean energy with our solar inverter + battery solution – the perfect solution for storing and utilizing solar power efficiently.

Single Phase
3.6kW

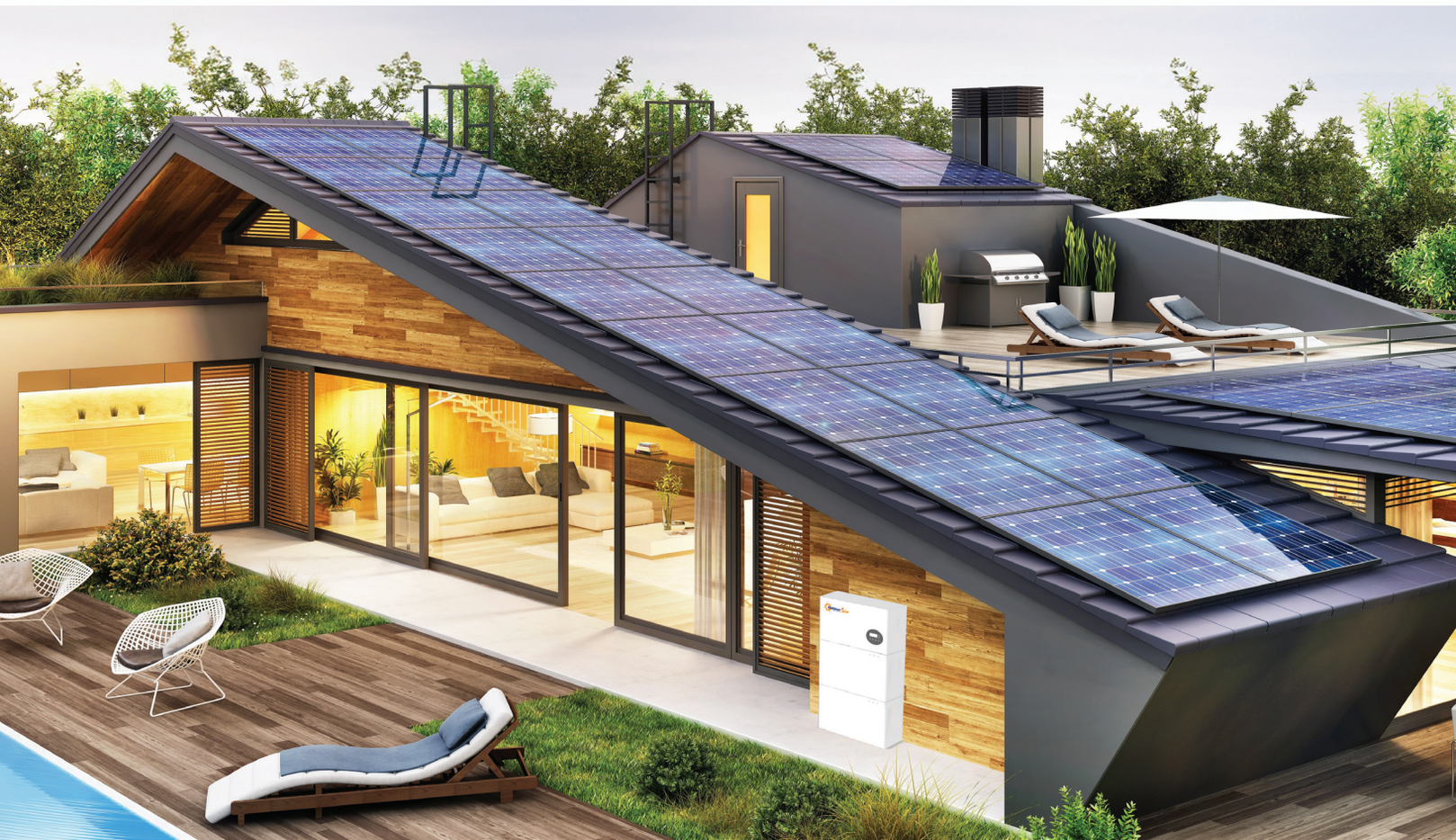
Three Phase
4 / 5 / 6 / 8 / 10kW

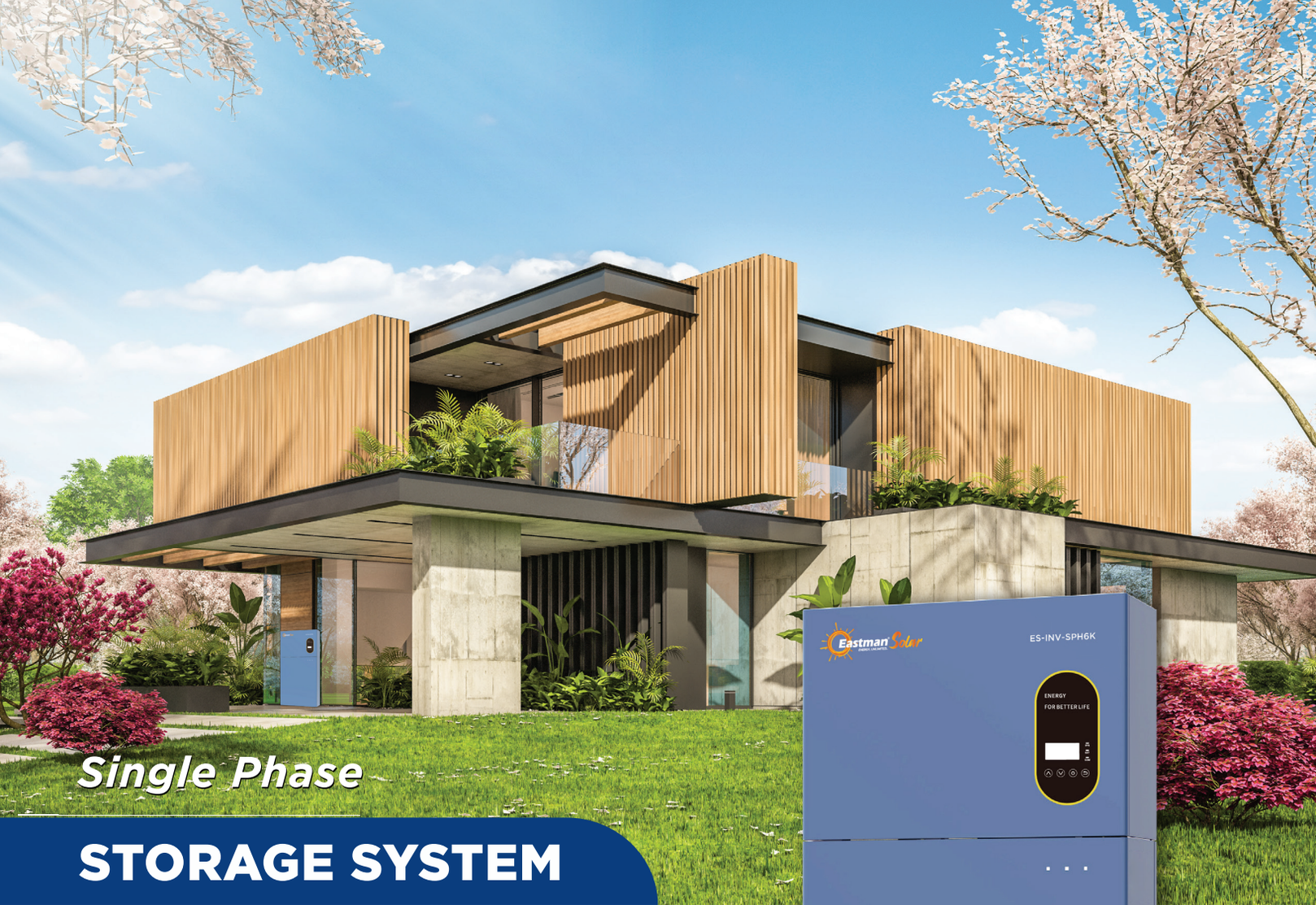


HIGH PERFORMANCE

HIGH RELIABILITY

HIGH INTELLIGENCE





Single Phase
STORAGE SYSTEM

Product Model

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

Product Features

High Performance

- 200% PV over management.
- 200% backup overload capacity, 60A battery current.
- Max. efficiency 97.3%, Battery efficiency 97%.
- Load monitoring accuracy 10W, Battery discharging threshold 10W.

High Reliability

- UPS level redundant protection against backup load breakdown.
- 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.

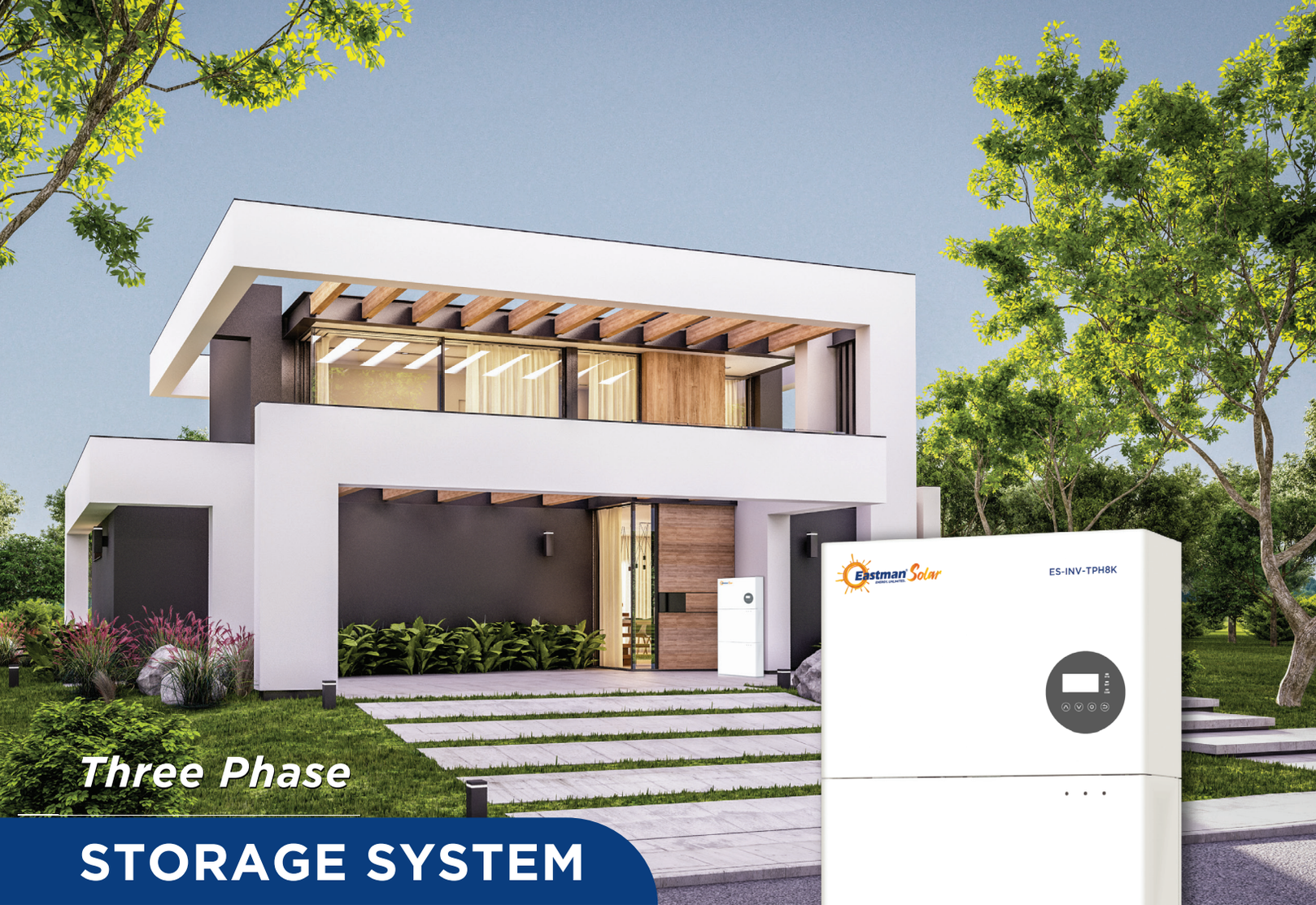
ENERGY STORAGE SYSTEM(SINGLE PHASE)

3.6kW

Product Specifications

INVERTER MODEL	ES-INV-SPH3.6K
PV INPUT	
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
AC PORT	
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
EFFICIENCY	
Max. Efficiency	97.3%
Max. Round Trip Efficiency	90%
GENERAL DATA	
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**
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

Note: Specifications are subject to change without advance notice.



Three Phase

STORAGE SYSTEM

Product Model

INVERTER	ES-INV-TPH4K ES-INV-TPH5K ES-INV-TPH6K ES-INV-TPH8K ES-INV-TPH10K
+	
BATTERY	ES-BAT-4.8S

Product Features

High Performance

- 200% PV over management.
- 200% backup overload capacity, 50A battery current.
- Max. efficiency 98%, Battery efficiency 96%.
- Load monitoring accuracy 10W, Battery discharging threshold 10W.

High Reliability

- UPS level redundant protection against backup load breakdown.
- 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)

4 / 5 / 6 / 8 / 10kW

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		

Note: Specifications are subject to change without advance notice.

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