

ES-T Series

Three-phase • 5 kW • 6 kW • 8 kW • 10 kW

The professional **three-phase** storage system for residential and commercial facilities



- Cost-optimized three-phase hybrid inverter
- High-voltage system
- WLAN integrated
- Integrated data logger with free portal
- Coloured graphic display
- Emergency power capability
- 5 year warranty (optional 10 year warranty)
- Service hotline

ES-T Series

Technical specifications

		5ES-T	6ES-T	8ES-T	10ES-T
DC Inputs	Maximum input power	7.5 kW	9.0 kW	12.0 kW	15.0 kW
	Maximum input voltage	1,000 V			
	Minimum input voltage	200 V			
	Nominal input voltage	720 V			
	PV MPPT voltage range	150 V - 950 V			
	DC voltage range - independent MPPTs	385 V - 850 V @ 5 kW	500 V - 850 V @ 6.5 kW	655 V - 850 V @ 8.5 kW	770 V - 850 V @ 10 kW
	DC voltage range - MPPT connected in parallel	290 V - 850 V	350 V - 850 V	425 V - 850 V	460 V - 850 V
	Maximum power x MPPT	5 kW	6.5 kW	8.5 kW	10 kW
	Maximum input current x MPPT	13 A	13 A	13 A	13 A
	Short-circuit current x MPPT	15 A	15 A	15 A	15 A
	Number of MPPTs	2			
Maximum number of strings x MPPT	1				
Battery charge	Battery type	Lithium			
	Battery voltage range	170 V - 500 V			
	Maximum current	25 A			
	Battery nominal voltage	200 V	240 V	320 V	400 V
	Maximum charging / discharging power	5 kW	6 kW	8 kW	10 kW
AC output	Mains connection	Three-phase			
	Apparent power S_n	5 kVA	6 kVA	8 kVA	10 kVA
	Active power P	5 kW	6 kW	8 kW	10 kW
	AC voltage range	400 Vac \pm 15 % (*)			
	Output nominal current	7.2 A	8.7 A	11.5 A	14.5 A
	Mains nominal frequency	50 Hz			
	Frequency range	47 Hz - 53 Hz (*)			
	Cos φ	1 (adj \pm 0.80)			
	THD	< 3 %			
Operating Performance	Maximum Efficiency	97.6 %			
	European efficiency	97 %			
	Battery typical efficiency	96 %			
Protective Devices	DC polarity reversal	As standard			
	BATTERY polarity reversal	As standard			
	BATTERY overload protection	As standard			
	AC short-circuit protection	As standard			
	Isolation monitoring unit	As standard			
	Interface protection and anti-islanding	In compliance with local legislation			
	RCMU (Residual Current Monitoring Unit)	As standard			
	DC Overvoltage protective device (MOV + SURGE PROTECTOR)	As standard			
	AC Overvoltage protective device (MOV + SURGE PROTECTOR)	As standard			
	BATTERY Overvoltage protection (MOV)	As standard			

(*) The range depends on the grid connection standard valid in the country of installation.



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Accessories Supplied	DC connector	Quick coupling, Type Amphenol (in the scope of delivery)			
	AC connector	Screw terminal strip, M25 cable gland			
	BATTERY connection	Quick coupling, Type Phoenix Contact (in the scope of delivery)			
	DC isolator	As standard			
	BATTERY automatic isolator	Integrated			
	AC-BY-PASS switch	As standard			
	Display	LCD-Farbtouchscreen 4.3"			
	Interface	USB, CAN Bus, Ethernet, RS485, WLAN			
	Data logger	Integrated			
Warranties	5 years (as standard), 10 years (optional)				
Ambient Conditions	Ambient temperature	- 20 °C ... + 60 °C			
	Power derating temperature range	+ 40 °C ... + 60 °C			
	Storage temperature	- 30 °C ... + 70 °C			
	Relative humidity	5 % ... 95 % (without condensation)			
	Noise levels	< 50 dB(A) @ 1 m			
	Maximum operating altitude	2,000 m (without derating)			
General data	Protection rating	IP21			
	Overvoltage category (IEC 62109-1)	II (DC-, battery-inputs) III (AC output)			
	Ventilation	I-cool (fan)			
	Dimensions (W x H x D)	476 mm x 735 mm x 170 mm			
	Weight	25 kg			
	Fitting system	Wall bracket			
Safety	Protection class	I			
	DC to AC isolation level	Without transformer			
	BATTERY to AC and DC isolation level	Without transformer			
	Certifications	CE			
	EMC and Safety standards	EN 62109-1; EN 62109-2; EN 61000-6-3; EN 61000-3-2; EN 61000-3-3; EN 61000-3-11; EN 61000-3-12; EN61000-6-2			
	Mains connection standards	VDE AR-N 4105			

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Data, dimensions, design, weight and dimensions are subject to change.



The quality management system of the SolarMax Produktions GmbH is certified according to ISO 9001:2015.

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Storage systems and inverters for photovoltaic systems

- Storage systems
- Inverters
- Energy management
- Data communication
- System monitoring
- RePowering
- Services



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