



# SolarMax HT-Series

The perfect solution for commercial PV plants



**Three-phase  
20 kW - 32 kW**

# SolarMax HT-Series

## Specifications

Three-phase  
20 kW - 25 kW



		SolarMax 20HT4	SolarMax 25HT4
<b>Input values</b>	MPP-voltage range <sup>1)</sup>	300 V ... 800 V	370 V ... 800 V
	Control range	250 V ... 850 V	
	Minimum DC-voltage	250 V	
	Maximum DC-voltage	1,000 V	
	Maximum DC-current <sup>6)</sup>	4 x 21.5 A	
	Number of MPP-Trackers	4	
	Max. PV generator output power per MPPT <sup>5)</sup>	9,000 Wp	
	Number of string connections	4 x 2	
Connection type	Wieland PST40i1 (MC4 identical in design)		
<b>Output values</b>	Rated output power <sup>2)</sup>	20,000 W	25,000 W
	Maximum apparent output power <sup>2)</sup>	20,000 VA	25,000 VA
	Maximum AC current	3 x 29 A	3 x 37 A
	Nominal mains voltage	3 x 400 V	
	Mains nominal frequency / range	50 Hz / 45 Hz ... 55 Hz	
	Power factor cos (φ)	Adjustable from 0.8 overexcited to 0.8 underexcited	
	Distortion factor at rated output power	< 3 %	
	Connection type	Connector (locking)	
	Grid connection	Three-phase (L1 / L2 / L3 / N / PE)	
	Power input at night	0 VA <sup>3)</sup>	
<b>Efficiency</b>	Max. efficiency	97.5 %	97.5 %
	Euro efficiency	96.3 %	97.0 %
<b>Ambient conditions</b>	Protection class	IP65	
	Ambient temperature range (for rated power output)	- 20 °C ... + 60 °C (+ 45 °C)	
	Relative humidity	0 % ... 98 % (without condensation)	
	Maximum operating level above sea level	2,000 m (without Derating)	
	Fire protection	According EN 62109-1/ -2	
<b>Configuration</b>	Display	LC graphics display with backlighting and status LED	
	Circuit type	Two-stage, transformerless	
	Data logger	Data logger for Energy yield, peak output and operating duration of the last 31 days, 12 months, 10 years, performance curves of the last 7 days	
	Fault current monitoring	Internal, AC/DC sensitive	
	Casing	Aluminium	
	Overvoltage conductor DC	Class C (VDE 0675-6) and type 2 (EN 61643-11)	
	Overvoltage conductor AC	Class D (VDE 0675-6) and type 3 (EN 61643-11)	
<b>Standard &amp; guidelines <sup>4)</sup></b>	EMC	EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-3	
	Grid connection	VDE 0126-1-1 A1:2012 / VDE 0126-1-1:2013 / VDE-AR-N 4105:2011 / CEI 0-21 / CEI 0-16	
	Device safety	EN 62109-1/ -2	
<b>Interfaces</b>	Data communication	RS485 (RJ45 and terminal screw) / Ethernet (RJ45)	
	Status signaling contact	Relay as N/C contact / N/O contact (terminal screw)	
	Connection ripple control signal receiver	With MaxRemote	
	Connection external grid monitoring	Terminal screw	
<b>Weight &amp; Dimensions</b>	Weight	70 kg	
	Dimensions (W x H x D)	580 mm x 840 mm x 380 mm	
<b>Warranty</b>	Standard warranty	5 years	
	Warranty extensions	To 10, 15, 20 or 25 years	

<sup>1)</sup> for AC rated power output.

<sup>2)</sup> stored in the terminal box.

<sup>3)</sup> EMC filter is disconnected at night.

<sup>4)</sup> without terminal box.

<sup>5)</sup> Higher power rating admissible, but cannot be used by the inverter.

<sup>6)</sup> Limited/unlimited MPP Tracker area.

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# SolarMax HT-Series

## Specifications

Three-phase  
30 kW - 32 kW



		SolarMax 30HT4	SolarMax 32HT4
<b>Input values</b>	MPP-voltage range <sup>1)</sup>	430 V ... 800 V	460 V ... 800 V
	Control range	250 V ... 850 V	250 V ... 850 V
	Minimum DC-voltage	250 V	
	Maximum DC-voltage	1,000 V	
	Maximum DC-current <sup>6)</sup>	4 x 21.5 A	
	Number of MPP-Trackers	4	
	Max. PV generator output power per MPPT <sup>5)</sup>	9,000 Wp	
	Number of string connections	4 x 2	
Connection type	Wieland PST40i1 (MC4 identical in design)		
<b>Output values</b>	Rated output power <sup>2)</sup>	30,000 W	32,000 W
	Maximum apparent output power <sup>2)</sup>	30,000 VA	32,000 VA
	Maximum AC current	3 x 44 A	3 x 47 A
	Nominal mains voltage	3 x 400 V	
	Mains nominal frequency / range	50 Hz / 45 Hz ... 55 Hz	
	Power factor cos (φ)	Adjustable from 0.8 overexcited to 0.8 underexcited	
	Distortion factor at rated output power	< 3 %	
	Connection type	Connector (locking)	
	Grid connection	Three-phase (L1 / L2 / L3 / N / PE)	
	Power input at night	0 VA <sup>3)</sup>	
<b>Efficiency</b>	Max. efficiency	98.0 %	
	Euro efficiency	97.5 %	
<b>Ambient conditions</b>	Protection class	IP65	
	Ambient temperature range (for rated power output)	- 20 °C ... + 60 °C (+ 45 °C)	
	Relative humidity	0 % ... 98 % (without condensation)	
	Maximum operating level above sea level	2,000 m (without Derating)	
	Fire protection	According EN 62109-1/ -2	
<b>Configuration</b>	Display	LC graphics display with backlighting and status LED	
	Circuit type	Two-stage, transformerless	
	Data logger	Data logger for Energy yield, peak output and operating duration of the last 31 days, 12 months, 10 years, performance curves of the last 7 days	
	Fault current monitoring	Internal, AC/DC sensitive	
	Casing	Aluminium	
	Overvoltage conductor DC	Class C (VDE 0675-6) and type 2 (EN 61643-11)	
Overvoltage conductor AC	Class D (VDE 0675-6) and type 3 (EN 61643-11)		
<b>Standard &amp; guidelines <sup>4)</sup></b>	EMC	EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-3	
	Grid connection	VDE 0126-1-1 A1:2012 / VDE 0126-1-1:2013 / VDE-AR-N 4105:2011 / BDEW MV directive CEI 0-21 / CEI 0-16 / G59/3	
	Device safety	EN 62109-1/ -2	
<b>Interfaces</b>	Data communication	RS485 (RJ45 and terminal screw) / Ethernet (RJ45)	
	Status signaling contact	Relay as N/C contact / N/O contact (terminal screw)	
	Connection ripple control signal receiver	With MaxRemote	
	Connection external grid monitoring	Terminal screw	
<b>Weight &amp; Dimensions</b>	Weight	70 kg	
	Dimensions (W x H x D)	580 mm x 840 mm x 380 mm	
<b>Warranty</b>	Standard warranty	5 years	
	Warranty extensions	To 10, 15, 20 or 25 years	

<sup>1)</sup> for AC rated power output.

<sup>2)</sup> stored in the terminal box.

<sup>3)</sup> EMC filter is disconnected at night.

<sup>4)</sup> without terminal box.

<sup>5)</sup> Higher power rating admissible, but cannot be used by the inverter.

<sup>6)</sup> Limited/unlimited MPP Tracker area.

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



# Storage systems and inverters for photovoltaic systems



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