

# 30 & 35SHT

The perfect three-phase inverter  
for commercial installations



Integrated string fuses  
with 3 strings in parallel



Wide input voltage range  
Variable system planning



Suitable for outdoor use  
Protection against dust and water jets



WLAN Quick install  
via MaxLink App



Monitoring Portal  
and Service Hotline



Compact dimensions  
Low weight

## Technical specifications

|  | 30SHT (50) <sup>2</sup>  | 35SHT (50) <sup>2</sup> |
|--|--|-------------------------|
| <b>Input values</b>                      |  |                         |
| MPP voltage range                        | 200 V ... 960 V  |                         |
| MPP voltage range at nominal power       | 540 V ... 800 V  |                         |
| Maximum DC voltage                       | 1,000 V  |                         |
| Minimum DC voltage for startup           | 250 V  |                         |
| Minimum DC voltage for shutdown          | 200 V  |                         |
| Maximum DC current                       | 110 A (33A / 33 A / 22 A / 22 A)   |                         |
| Maximum DC current per string            | 11 A   |                         |
| Maximum DC short circuit current         | 140 A (42 A / 42 A / 28 A / 28 A)  |                         |
| Number of MPP trackers                   | 4  |                         |
| Maximum PV output per MPPT               | MPPT 1 & 2: 22,500 W / MPPT 3 & 4: 15,000 W  |                         |
| Number of string connections             | 10 (3/3/2/2)   |                         |
| Connection type                          | Amphenol H4 (type MC4)   |                         |
| <b>Output values</b>                     |  |                         |
| Rated output power                       | 30,000 W   | 35,000 W                |
| Maximum apparent power                   | 30,000 VA  | 35,000 VA               |
| Maximum AC current                       | 3* 83 A  | 3* 92 A                 |
| Mains nominal voltage                    | 400 V (3 L + N + PE)   |                         |
| Mains voltage range <sup>1</sup>         | 277 V ... 520 V  |                         |
| Mains frequency <sup>1</sup>             | 50 Hz / 60 Hz  |                         |
| Mains frequency range                    | 45 Hz ... 55 Hz / 55 Hz ... 65 Hz  |                         |
| Power factor cos (φ)                     | Adjustable from 0.8 overexcited 0.8 underexcited   |                         |
| Distortion factor at rated output power  | < 3 %  |                         |
| Power input at night                     | < 1 W  |                         |
| Connection type                          | Connector  |                         |
| <b>Efficiency</b>                        |  |                         |
| Maximum efficiency                       | 98.3 %   |                         |
| Euro efficiency                          | 98.0 %   |                         |
| <b>Ambient conditions</b>                |  |                         |
| Protection class                         | IP65   |                         |
| Ambient temperature range                | - 25 °C ... + 60 °C  |                         |
| Relative humidity                        | 0 % ... 100 % (not condensing)   |                         |
| Cooling                                  | With fan   |                         |
| Maximum operating height above sea level | 4,000 m (> 2,000 m derating)   |                         |
| Audible noise emissions                  | < 65 dB(A) @ 1 m   |                         |
| <b>Configuration</b>                     |  |                         |
| Display                                  | App over WLAN connection + LED   |                         |
| Inverter topology                        | Transformerless  |                         |
| DC disconnecter                          | Integrated   |                         |
| DC polarity inversion protection         | Integrated   |                         |
| Residual current monitoring unit (RCMU)  | Integrated   |                         |
| Mains protection interface               | Integrated   |                         |
| Protection class (IEC 62109-1)           | I  |                         |
| Overvoltage category (IEC 62109-1)       | AC: III / DC: II   |                         |
| AC/DC surge arrester                     | Type 2 / Type 1 + 2  |                         |
| <b>Standard &amp; guidelines</b>         |  |                         |
| EMV                                      | EN 61000-6-2, EN 61000-6-4   |                         |
| Grid connection                          | EN50549-1, EN50549-2, VDE-AR-N 4110, VDE-AR-N 4105, IEC 61727, IEC 62116, VDE 0126-1-1, CEI 0-21 |                         |
| Device safety                            | IEC 62109-1, IEC 62109-2   |                         |
| <b>Interfaces</b>                        |  |                         |
| Data communication                       | WiFi, RS485  |                         |
| <b>Weight &amp; dimensions</b>           |  |                         |
| Weight                                   | 83 kg  |                         |
| Dimensions (W x H x D)                   | 855 mm x 710 mm x 285 mm   |                         |
| <b>Warranty</b>                          |  |                         |
| Standard warranty                        | 5 years / optional 10 years  |                         |



The quality management system of SOLARMAX GmbH is certified according to ISO 9001:2015.

- 1) Output voltage and frequency can vary depending on country setting and grid code.
- 2) Choked 50SHT, choking must be carried out by the installer.

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Until  
**10 YEARS**  
Warranty