

# Solis-(25-40)K-US

## Solis Three Phase US Inverters



### Features:

- ▶ Max. efficiency 98.6% (CEC efficiency 98.3%) with ultra-low start-up voltage
- ▶ Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- ▶ Designed for all commercial, industrial, and utility-scale applications
- ▶ Transformer-less three phase design with 480 Vac output
- ▶ Wide voltage range and low startup voltage
- ▶ Industry-leading 4 MPPT designs with fast (<5 sec) MPPT response times
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI) option
- ▶ RS-485 Modbus communication protocol with Wi-Fi interface
- ▶ 7" LCD color display
- ▶ Web-based data monitoring with downloadable Solis Mobile App
- ▶ 10 years standard warranty with extension options



### Ordering: Solis-(25-40K)-US

- LSW-SPRT (SunSpec MLRSD Transmitter)
- LSW-RSS (Tigo MLRSD Transmitter)
- SW (No Transmitter)

## Datasheet

| Model Name  | Solis-25K-US-XX*   | Solis-30K-US-XX* | Solis-36K-US-XX* | Solis-40K-US-XX* |
|---|--|------------------|------------------|------------------|
| <b>Input DC</b>                                   |  |                  |                  |                  |
| Recommended max. PV power                         | 37.5 kW  | 45 kW            | 54 kW            | 54 kW            |
| Max. input voltage                                | 1000 V   |                  |                  |                  |
| Rated voltage                                     | 700 V  |                  |                  |                  |
| Start-up voltage                                  | 350 V  |                  |                  |                  |
| MPPT voltage range                                | 200 - 800 V  |                  |                  |                  |
| Max. input current                                | 4*18 A   |                  |                  |                  |
| Max. short circuit current                        | 4*28.1 A   |                  |                  |                  |
| MPPT number/Max. input strings number             | 4 / 8  |                  |                  |                  |
| <b>Output AC</b>                                  |  |                  |                  |                  |
| Rated output power                                | 25 kW  | 30 kW            | 36 kW            | 40 kW            |
| Max. apparent output power                        | 25 kVA   | 30 kVA           | 36 kVA           | 40 kVA           |
| Max. output power                                 | 25 kW  | 30 kW            | 36 kW            | 40 kW            |
| Rated grid voltage                                | 3Φ/PE, 480 V   |                  |                  |                  |
| Rated grid frequency                              | 60 Hz  |                  |                  |                  |
| Max. output current                               | 30.1 A   | 36.1 A           | 43.3 A           | 48.1 A           |
| Power Factor                                      | >0.99 (0.8 leading - 0.8 lagging)  |                  |                  |                  |
| THDi  | <3%  |                  |                  |                  |
| <b>Efficiency</b>                                 |  |                  |                  |                  |
| Max. efficiency                                   | 98.6%  |                  |                  |                  |
| CEC efficiency                                    | 98.3%  |                  |                  |                  |
| <b>Protection</b>                                 |  |                  |                  |                  |
| DC reverse-polarity protection                    | Yes  |                  |                  |                  |
| Ground fault monitoring                           | Yes  |                  |                  |                  |
| Anti-islanding protection                         | Yes  |                  |                  |                  |
| Integrated AFCI (DC arc-fault circuit protection) | Yes  |                  |                  |                  |
| Integrated DC switch                              | Yes  |                  |                  |                  |
| Rapid shutdown                                    | Yes  |                  |                  |                  |
| <b>General Data</b>                               |  |                  |                  |                  |
| Dimensions (W*H*D)                                | SW: 21.1*38.0*14.1 in (535*966*358 mm), LSW: 21.1*45.9*14.1 in (535*1167*358 mm)   |                  |                  |                  |
| Weight (Inverter/Wiring box)                      | SW: 127 lbs (57.7 kgs) / 22.8 lbs (10.3 kgs), LSW: 127 lbs (57.7 kgs)/26.5 lbs (12kgs)   |                  |                  |                  |
| Topology  | Transformerless  |                  |                  |                  |
| Self consumption (night)                          | <1 W   |                  |                  |                  |
| Relative humidity                                 | 0-100%   |                  |                  |                  |
| Operating ambient temperature range               | -13 °F to 140 °F (-25°C to 60°C)   |                  |                  |                  |
| Storage environment                               | -13 °F to 176 °F (-25°C to 80°C)   |                  |                  |                  |
| Ingress protection                                | TYPE 4X  |                  |                  |                  |
| Cooling concept                                   | Natural convection   |                  |                  |                  |
| Max. operation altitude                           | 13,120 ft (4000 m)   |                  |                  |                  |
| Compliance  | UL 1741, IEEE 1547, UL 1699B, UL 1998, FCC, UL 1741SA, California Rule 21, SRD-UL1741  |                  |                  |                  |
| <b>Features</b>                                   |  |                  |                  |                  |
| DC connection                                     | 4 knockout for 1.5" conduit at bottom and side, Fuse screw terminal (Copper 12-6AWG)   |                  |                  |                  |
| AC connection                                     | 4 knockout for 1.5" conduit at bottom and side, terminal block, OT terminal (Copper or aluminum 8-2AWG), Aluminum requires bi-metallic compatible terminal |                  |                  |                  |
| Display   | 7.0"LCD color screen display   |                  |                  |                  |
| Communication                                     | Modbus RTU (Sunspec compliant), RS485, Optional: Cellular, Wi-Fi   |                  |                  |                  |

\* **Ordering guidelines:** Determine the basic model from above and add your desired features as described on PG1

Ex: Solis-40K-US-F-LSW-SPRT, (inverter with Fan and internal Sunspec transmitter)