

# 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
- ▶ AFCI protection, proactively reduces fire risk
- ▶ 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)