

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 Transmitter
- -LSW-RSS = Tigo transmitter
- -SW = No Transmitter

Datasheet

Model Name	Solis-25K-US-XX*	Solis-30K-US-XX*	Solis-36K-US-XX*	Solis-40K-US-XX*
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Input DC

Recommended max. PV power	37500W	45000W	54000W	54000W
Max. input voltage	1000V			
Rated voltage	700V			
Start-up voltage	350V			
MPPT voltage range	200-800V			
Max. input current	4*18A			
Max. short circuit current	4*28.1A			
MPPT number/Max. input strings number	4/8			

Output AC

Rated output power	25000W	30000W	36000W	40000W
Max. apparent output power	25000VA	30000VA	36000VA	40000VA
Max. output power	25000W	30000W	36000W	40000W
Rated grid voltage	3Φ/PE, 480V			
Rated grid frequency	60Hz			
Max. output current	30.1A	36.1A	43.3A	48.1A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			

Efficiency

Max. efficiency	98.6%			
CEC efficiency	98.3%			

Protection

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			

General Data

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	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	<1W (night)			
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	NEMA 4X			
Cooling concept	Natural convection			
Max. operation altitude	13,120 ft (4000 m)			
Compliance	UL 1741, IEEE 1547, IEEE 1547a, IEEE 1547.1, IEEE 1547.1a, UL 1699B, UL 1998, California Rule 21 phase I,II&III			

Features

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 Suns spec transmitter)