

S6-GC30K-LV-US

Solis Three Phase US Inverters

>> Models:

208V S6-GC30K-LV-US

Ordering: S6-GC30K-LV-US

- APST (APS MLRSD Transmitter)
- RSS (Tigo MLRSD Transmitter)
- NEPT (NEP MLRSD Transmitter)



Efficient

- Max. efficiency 98.7% (CEC efficiency 98.3%)
- String current up to **20A**
- 3 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield
- Wide voltage range and low startup voltage

Smart

- Equipped with external power control interface, supporting zero output power control
- Intelligent string monitoring, smart I-V curve scan
- Supports RS485, Ethernet, WiFi, Cellular
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- Type 4X, C5 Anti-Corrosion Level
- AFCI protection, proactively reduces fire risk
- Intelligent redundant fan-cooling
- Integrated module level rapid shutdown transmitter
- High quality components from globally recognized suppliers

Economic

- > 1.5 DC/AC ratio
- Supports high power modules for lower installation costs
- Supports aluminium wire access to reduce cost

DATASHEET**S6-GC30K-LV-US****Models****30K****Input DC**

Max. input voltage	1000 V
Rated voltage	720 V
Start-up voltage	160 V
MPPT voltage range	160-1000 V
Max. input current	40 A / 40 A / 40 A
Max. short circuit current	63 A / 63 A / 63 A
MPPT number/Max. input strings number	3/6

Output AC

Rated output power	30 kW
Max. apparent output power (Selectable)	30 kVA
Max. output power	30 kW
Rated grid voltage	3Φ/PE, 208 V
Rated grid frequency	60 Hz
Max. output current	83.3 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%

Efficiency

Max. efficiency	98.7%
CEC efficiency	98.3%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes
Integrated PID recovery	Yes
Integrated DC switch	Yes
Integrated AC switch	Yes

General Data

Dimensions (W*H*D)	25.5*24.8*9.9 in (647*629*252 mm)
Weight	81.6 lbs (37 kgs)
Topology	Transformerless
Self-consumption (night)	<1 W
Relative humidity	0-100%
Operating ambient temperature range	-22°F~140°F (-30°C~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	UL1741SB, UL1741SA, IEEE 1547-2018, UL1699B, UL1998, FCC Part15 ClassB, California Rule 21, Heco Rule 14H, NEC 690.12-2020, CAN/CSA C22.2107.1-1

Features

DC connection	MC4 connector
AC connection	OT terminal (4 AWG to 3/0 AWG)
Display	LCD
Communication	Modbus RTU (Sunspec compliant), RS485, Ethernet, Optional: Cellular, Wi-Fi