

S6-GC30K-LV-US

Solis Three Phase Grid-Tied Inverters

Efficient

- Max. efficiency 97.7% (CEC efficiency 97.0%)
- String current up to 20A
- 3 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- 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 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

Models:

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Ordering: S6-GC30K-LV-US

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



DATASHEET

S6-GC30K-LV-US

Models	30K
Input DC	
Max. input voltage	1000 V
Rated voltage	600 V
Start-up voltage	195 V
MPPT voltage range	180 - 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	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	97.7%
CEC efficiency	97.0%
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
Multi peak scan	Yes
Integrated AFCI	Yes
Integrated PID recovery	Optional
Integrated DC switch	Yes
Integrated AC switch	Yes
General Data	
Dimensions (W × H × D)	30.9 × 21.6 × 12.6 in (784 × 549 × 320 mm)
Weight	103.8 lbs (47.1 kgs)
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)
Ingress protection	TYPE 4X
Noise emission (typical)	≤ 55 dB(A)
Cooling concept	Natural cooling
Max. operation altitude	13,120 ft (4000 m)
Compliance	UL1741SB, 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, Optional: Cellular, Wi-Fi