

S5-GC60K-LV-US

Solis Three Phase Grid-Tied Inverters

Efficient

- 8 MPPTs, max. efficiency 98.5% (CEC efficiency 98.1%)
- > 1.5 DC/AC ratio
- String current up to 16A for higher capacity modules

Economic

- DC side supports "Y" connector

Safe

- Type 4X, C5 Anti-Corrosion Level
- External signal control function
- Nighttime PID recovery function
- AFCI protection, proactively reduces fire risk
- High quality components from globally recognized suppliers

Smart

- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation^①

Models:

S5-GC60K-LV-US

Ordering: S5-GC60K-LV-US

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



^① Requires the user to use Solis monitoring

DATASHEET

Models	60K
Input DC	
Max. input voltage	1000 V
Rated voltage	450 V
Start-up voltage	195 V
MPPT voltage range	180 - 1000 V
Max. input current	8 × 32 A
Max. short circuit current	8 × 50 A
MPPT number / Max. input strings number	8 / 16
Output AC	
Rated output power	60 kW
Max. apparent output power	60 kVA
Max. output power	60 kW
Rated grid voltage	3Φ/PE, 208 V
Rated grid frequency	60 Hz
Max. output current	166.5 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Efficiency	
Max. efficiency	98.5%
CEC efficiency	98.1%
Protection	
DC reverse-polarity protection	Yes
Surge protection	DC Type II / AC Type II
Ground fault monitoring	Yes
Anti-islanding protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Rapid shutdown	Yes
Integrated AFCI	Yes
Integrated PID recovery	Yes
AC switch	Yes
General Data	
Dimensions (W × H × D)	41.9 × 22.3 × 13.6 in (1065 × 567 × 344.5 mm)
Weight	200 lbs (91 kg)
Topology	Transformerless
Self-consumption (night)	< 2 W
Relative humidity	0 - 100%
Operating ambient temperature range	-22°F to 140°F (-30°C to 60°C)
Storage environment	-40°F to 176°F (-40°C to 80°C)
Ingress protection	NEMA 4X
Cooling concept	Intelligent redundant cooling
Max. operation altitude	13,120 ft (4000 m)
Compliance	UL 1741, IEEE 1547, UL 1699B, UL 1998, UL 1741SA, California Rule 21
Features	
DC connection	MC4 connector
AC connection	OT Terminal (max. 350 MCM)
Display	LCD
Communication	RS485, Ethernet, Optional: Wi-Fi, Cellular

Ordering guidelines: Determine the basic model and add your desired features from above.
 Ex: S5-GC60K-LV-US-APST (Inverter with APS transmitter)