

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
- Integrated nighttime PID recovery for optimal module performance
- 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

S5-GC60K-LV-US

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 kgs)
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	TYPE 4X
Cooling concept	Intelligent fan-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 (max. 350 MCM)
Display	LCD
Communication	RS485, 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)