

S5-GC(25-60)K-US

Solis Three Phase US Inverters

>> Models:

S5-GC25K-US

S5-GC33K-US

S5-GC36K-US

S5-GC40K-US

S5-GC50K-US

S5-GC60K-US

Ordering: S5-GC(25-60)K-US

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



Efficient

- Max. efficiency 98.8% (CEC efficiency 98.3%)
- String current up to **20A**
- 3/4 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
S5-GC(25-60)K-US

Models	25K	33K	36K	40K	50K	60K
Input DC						
Max. input voltage	1000 V					
Rated voltage	720 V					
Start-up voltage	180 V					
MPPT voltage range	150-1000 V					
Max. input current	32 A / 32 A / 32 A		32 A / 32 A / 40 A		32A / 32 A / 32 A / 40 A	32A / 32 A / 40 A / 40 A
Max. short circuit current	50 A / 50 A / 50 A				50 A / 50 A / 50 A / 50 A	
MPPT number/Max. input strings number	3 / 6				4 / 8	
Output AC						
Rated output power	25 kW	33 kW	36 kW	40 kW	50 kW	60 kW
Max. apparent output power	25 kVA	33 kVA	36 kVA	40 kVA	50 kVA	60 kVA
Max. output power	27.5 kW	36.3 kW	39.6 kW	44 kW	55 kW	66 kW
Rated grid voltage	3Φ/PE, 480 V					
Rated grid frequency	60 Hz					
Max. output current	30.1 A / 33.1 A	39.7 A / 43.7 A	43.3 A / 47.6 A	48.1 A / 52.9 A	60.1 A / 66.2 A	72.2 A / 79.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<3%					
Efficiency						
Max. efficiency	98.8%					
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 PID recovery	Yes					
Integrated AFCI (DC arc-fault circuit protection)	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					