

## S6-GC(25-60)K-US

Solis Three Phase US Inverters

### >> Models:

S6-GC25K-US

S6-GC33K-US

S6-GC36K-US

S6-GC40K-US

S6-GC50K-US

S6-GC60K-US

### Ordering: S6-GC(25-60)K-US

- APST (APS MLRSD Transmitter)
- RSS (Tigo MLRSD Transmitter)
- NEPT (NEP 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
- Integrated DC and AC disconnects

### Economic

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

**DATASHEET**

**S6-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						160 V
MPPT voltage range						160-1000 V
Max. input current	3×40 A					4×40 A
Max. short circuit current	3×63 A					4×63 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	27.5 kVA	36.3 kVA	39.6 kVA	44 kVA	55 kVA	66 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	33.1 A	43.7 A	47.6 A	52.9 A	66.2 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 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						Intelligent redundant fan-cooling
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, Optional: Ethernet, Cellular, Wi-Fi