

## 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 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

### Models:

S6-GC30K-LV-US

### Ordering: S6-GC30K-LV-US

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



## DATASHEET

## S6-GC30K-LV-US

| Models                                | 30K  |
|---------------------------------------|--|
| <b>Input DC</b>                       |  |
| 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  |
| <b>Output AC</b>                      |  |
| 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%  |
| <b>Efficiency</b>                     |  |
| Max. efficiency                       | 97.7%  |
| CEC efficiency                        | 97.0%  |
| <b>Protection</b>                     |  |
| 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                       | Yes  |
| Integrated PID recovery               | Optional   |
| Integrated DC switch                  | Yes  |
| Integrated AC switch                  | Yes  |
| <b>General Data</b>                   |  |
| 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 convection   |
| 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 |
| <b>Features</b>                       |  |
| 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   |