

Datasheet

| Model Name | Solis-25K-5G-AU | Solis-30K-5G-AU | Solis-30K-5G-AU-MX | Solis-33K-5G-AU | Solis-36K-5G-AU | Solis-40K-5G-AU | Solis-40K-HV-5G-AU | Solis-50K-HV-5G-AU |
|------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|--------------------|--------------------|
|------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|--------------------|--------------------|

Input DC

| | | | | | | | | |
|---------------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|
| Recommended max. PV power | 33 kW | 39 kW | 39 kW | 43 kW | 47 kW | 52 kW | 52 kW | 65 kW |
| Max. input voltage | 1100 V | | | | | | | |
| Rated voltage | 600 V | | | | | | | |
| Start-up voltage | 180 V | | | | | | | |
| MPPT voltage range | 200-1000 V | | | | | | | |
| Max. input current | 4*26 A | | | | | | | |
| Max. short circuit current | 4*30 A | | | | | | | |
| MPPT number/Max. input strings number | 4/8 | | | | | | | |

Output AC

| | | | | | | | | |
|----------------------------|-----------------------------------|--------|-----------|----------|----------|--------|-------------|--------|
| Rated output power | 25 kW | 30 kW | 29.99 kW | 33 kW | 36 kW | 40 kW | 40 kW | 50 kW |
| Max. apparent output power | 27.5 kVA | 33 kVA | 29.99 kVA | 36.3 kVA | 39.6 kVA | 44 kVA | 44 kVA | 55 kVA |
| Max. output power | 27.5 kW | 33 kW | 29.99 kW | 36.3 kW | 39.6 kW | 44 kW | 44 kW | 55 kW |
| Rated grid voltage | 3/N/PE, 230 V / 400 V | | | | | | 3/PE, 480 V | |
| Rated grid frequency | 50 Hz | | | | | | | |
| Rated grid current | 36.1 A | 43.3 A | 43.3 A | 47.6 A | 52.0 A | 57.7 A | 48.1 A | 60.1 A |
| Max. output current | 41.8 A | 50.2 A | 43.3 A | 55.1 A | 60.2 A | 66.9 A | 53.0 A | 66.2 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 | | | | | | | |
| Anti-PID function | Optional | | | | | | | |
| Intergarated DC switch | Optional (PV2 Switch) | | | | | | | |

General Data

| | | | | | | | | |
|-------------------------------------|---|--|--|--|--|--|--|--|
| Dimensions (W*H*D) | 647*629*252 mm | | | | | | | |
| Weight | 45 kg | | | | | | | |
| Topology | Transformerless | | | | | | | |
| Self consumption (night) | <1 W | | | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | | | |
| Relative humidity | 0-100% | | | | | | | |
| Ingress protection | IP65 | | | | | | | |
| Cooling concept | Natural convection | | | | | | | |
| Max. operation altitude | 4000 m | | | | | | | |
| Grid connection standard | AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530 | | | | | | | |
| Safety/EMC standard | IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4 | | | | | | | |

Features

| | | | | | | | | |
|---------------|------------------------------|--|--|--|--|--|--|--|
| DC connection | MC4 connector | | | | | | | |
| AC connection | OT terminal | | | | | | | |
| Display | LCD | | | | | | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | | | | | | |