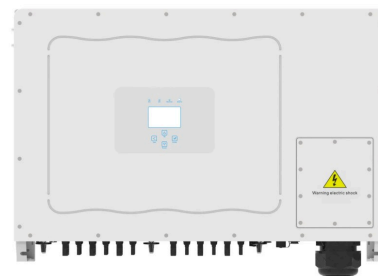


**INVERTERS**

# SUN-70-110K-G03

String inverter · Three-phase · 70 – 110 kW · 6 models


**70 – 110** kW

RATED POWER

**Three-phase**

PHASE

**4**

MPPT TRACKERS

**98.7 – 98.8** %

MAX. EFFICIENCY

| Parameter                                     | Unit | SUN-70K-G03      | SUN-75K-G03 | SUN-80K-G03 | SUN-90K-G03 | SUN-100K-G03 | SUN-110K-G03 |
|-----------------------------------------------|------|------------------|-------------|-------------|-------------|--------------|--------------|
| PV input                                      |      |                  |             |             |             |              |              |
| Max. PV input power                           | W    | 91000            | 97500       | 104000      | 135000      | 150000       |              |
| Max. PV input voltage                         | V    | 1000             |             |             |             |              |              |
| Start-up voltage                              | V    | 250              |             |             |             |              |              |
| MPPT voltage range                            | V    | 200 – 850        |             |             |             |              |              |
| Rated PV input voltage                        | V    | 600              |             |             |             |              |              |
| Max. input current per MPPT                   | A    | 40               |             |             |             |              |              |
| Max. short-circuit current per MPPT           | A    | 60               |             |             |             |              |              |
| Number of MPPT trackers                       |      | 4                |             |             | 6           |              |              |
| PV strings per MPPT                           |      | 4                |             |             |             |              |              |
| AC output                                     |      |                  |             |             |             |              |              |
| Rated output power                            | W    | 70000            | 75000       | 80000       | 90000       | 100000       | 110000       |
| Max. apparent power                           | VA   | 77000            | 82500       | 88000       | 99000       | 110000       | 121000       |
| Rated AC voltage                              | V    | 400              |             |             |             |              |              |
| Rated AC voltage options                      | V    | 220/380; 230/400 |             |             |             |              |              |
| AC voltage range                              |      | 0.85 Un-1.1 Un   |             |             |             |              |              |
| Phase                                         |      | Three-phase      |             |             |             |              |              |
| Grid connection form                          |      | 3L / N / PE      |             |             |             |              |              |
| Rated AC output current                       | A    | 101.5            | 108.7       | 115.9       | 130.4       | 144.9        | 159.4        |
| Rated AC output current at 380 V line voltage | A    | 106.1            | 113.6       | 121.2       | 136.4       | 151.5        | 166.7        |
| Max. AC output current                        | A    | 111.6            | 119.6       | 127.5       | 143.5       | 159.4        | 175.4        |
| Max. AC output current at 380 V line voltage  | A    | 116.7            | 125         | 133.3       | 150         | 166.7        | 183.3        |
| Rated AC frequency                            | Hz   | 50/60            |             |             |             |              |              |

| Parameter                               | Unit  | SUN-70K-G03                                                                                                                                                                                                                                                                                                                           | SUN-75K-G03 | SUN-80K-G03 | SUN-90K-G03 | SUN-100K-G03 | SUN-110K-G03 |
|-----------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|--------------|--------------|
| AC grid frequency range (50 Hz / 60 Hz) | Hz    | 45-55 / 55-65                                                                                                                                                                                                                                                                                                                         |             |             |             |              |              |
| Power factor                            |       | 0.8 leading to 0.8 lagging (adjustable)                                                                                                                                                                                                                                                                                               |             |             |             |              |              |
| Total harmonic distortion (THDi)        | %     | <3                                                                                                                                                                                                                                                                                                                                    |             |             |             |              |              |
| DC injection current                    |       | <0.5% In                                                                                                                                                                                                                                                                                                                              |             |             |             |              |              |
| Efficiency                              |       |                                                                                                                                                                                                                                                                                                                                       |             |             |             |              |              |
| Max. efficiency                         | %     | 98.7                                                                                                                                                                                                                                                                                                                                  |             |             | 98.8        |              |              |
| European efficiency                     | %     | 98.1                                                                                                                                                                                                                                                                                                                                  |             |             | 98.2        |              |              |
| MPPT efficiency                         | %     | >99                                                                                                                                                                                                                                                                                                                                   |             |             |             |              |              |
| Protection                              |       |                                                                                                                                                                                                                                                                                                                                       |             |             |             |              |              |
| Protection functions                    |       | DC reverse polarity protection; AC output overcurrent protection; AC output overvoltage protection; AC output short-circuit protection; Thermal protection; Insulation impedance detection; DC component monitoring; Arc fault circuit interrupter (AFCI)(optional); Anti-islanding protection; Residual current detection; DC switch |             |             |             |              |              |
| Surge protection level                  |       | Type II (DC), Type II (AC)                                                                                                                                                                                                                                                                                                            |             |             |             |              |              |
| Anti-PID function                       |       | Optional                                                                                                                                                                                                                                                                                                                              |             |             |             |              |              |
| General data                            |       |                                                                                                                                                                                                                                                                                                                                       |             |             |             |              |              |
| Dimensions (W x H x D)                  | mm    | 824 × 516 × 312.7                                                                                                                                                                                                                                                                                                                     |             |             |             |              |              |
| Weight                                  | kg    | 81                                                                                                                                                                                                                                                                                                                                    |             |             |             |              |              |
| Ingress protection (IP rating)          |       | IP65                                                                                                                                                                                                                                                                                                                                  |             |             |             |              |              |
| Operating temperature range             | °C    | -25 – 60                                                                                                                                                                                                                                                                                                                              |             |             |             |              |              |
| Power derating above                    | °C    | 45                                                                                                                                                                                                                                                                                                                                    |             |             |             |              |              |
| Relative humidity                       | %     | 0 – 100                                                                                                                                                                                                                                                                                                                               |             |             |             |              |              |
| Max. operating altitude                 | m     | 4000                                                                                                                                                                                                                                                                                                                                  |             |             |             |              |              |
| Noise level                             | dB    | ≤55                                                                                                                                                                                                                                                                                                                                   |             |             |             |              |              |
| Cooling                                 |       | Intelligent air cooling                                                                                                                                                                                                                                                                                                               |             |             |             |              |              |
| Topology                                |       | Non-isolated                                                                                                                                                                                                                                                                                                                          |             |             |             |              |              |
| Overvoltage category                    |       | OVC II (DC), OVC III (AC)                                                                                                                                                                                                                                                                                                             |             |             |             |              |              |
| Warranty                                | years | 5                                                                                                                                                                                                                                                                                                                                     |             |             |             |              |              |
| Communication                           |       |                                                                                                                                                                                                                                                                                                                                       |             |             |             |              |              |
| Communication interfaces                |       | RS485; RS232                                                                                                                                                                                                                                                                                                                          |             |             |             |              |              |
| Monitoring                              |       | GPRS / Wi-Fi / Bluetooth / 4G / LAN (optional)                                                                                                                                                                                                                                                                                        |             |             |             |              |              |
| String intelligent monitoring           |       | Optional                                                                                                                                                                                                                                                                                                                              |             |             |             |              |              |
| Certifications                          |       |                                                                                                                                                                                                                                                                                                                                       |             |             |             |              |              |
| Certifications and standards            |       | IEC/EN 61000-6-1/2/3/4; IEC/EN 62109-1; IEC/EN 62109-2                                                                                                                                                                                                                                                                                |             |             |             |              |              |
| Grid codes                              |       | IEC 61727; IEC 62116; CEI 0-21; EN 50549; NRS 097; RD 140; UNE 217002; OVE-Richtlinie R25; G99; VDE-AR-N 4105                                                                                                                                                                                                                         |             |             |             |              |              |

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.  
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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