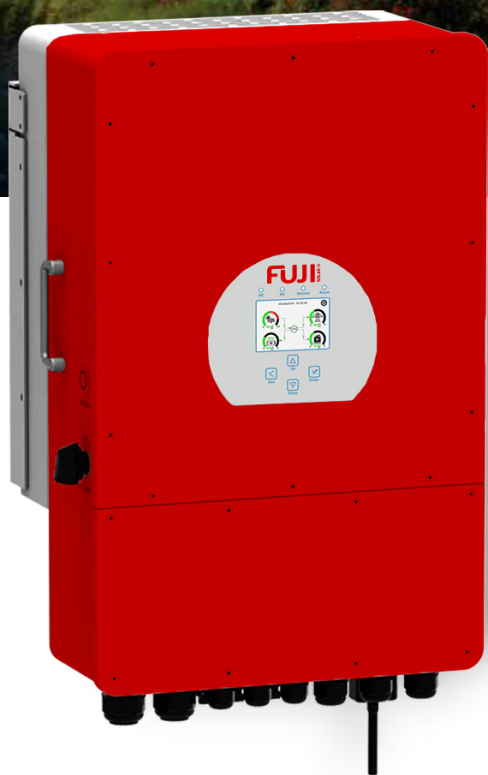




# Three Phase Hybrid Inverter

FU-SUN-5/6/8/10/12/15/20/25K-SG01HP3-EU-AM2



**FUJI** SOLAR®

- 100** 100% unbalanced output, each phase; Max. output up to 50% rated power
-  DC couple and AC couple to retrofit existing solar system
- 10** \*Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 50** Max. charging/discharging current of 50A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

| Model   | SUN-5K-SG01<br>HP3-EU-AM2  | SUN-6K-SG01<br>HP3-EU-AM2 | SUN-8K-SG01<br>HP3-EU-AM2 | SUN-10K-SG01<br>HP3-EU-AM2 | SUN-12K-SG01<br>HP3-EU-AM2 | SUN-15K-SG01<br>HP3-EU-AM2 | SUN-20K-SG01<br>HP3-EU-AM2 | SUN-25K-SG01<br>HP3-EU-AM2 |
|---|--|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <b>Battery Input Data</b>                         |  |                           |                           |                            |                            |                            |                            |                            |
| Battery Type                                      | Lithium-ion  |                           |                           |                            |                            |                            |                            |                            |
| Battery Voltage Range (V)                         | 160~700  |                           |                           |                            |                            |                            |                            |                            |
| Max. Charging Current (A)                         | 37   |                           |                           |                            |                            |                            |                            | 50                         |
| Max. Discharging Current (A)                      | 37   |                           |                           |                            |                            |                            |                            | 50                         |
| Number of Battery Input                           | 1  |                           |                           |                            |                            |                            |                            |                            |
| Charging Strategy for Li-Ion Battery              | Self-adaption to BMS   |                           |                           |                            |                            |                            |                            |                            |
| <b>PV String Input Data</b>                       |  |                           |                           |                            |                            |                            |                            |                            |
| Max. DC Input Power (W)                           | 6500   | 7800                      | 10400                     | 13000                      | 15600                      | 19500                      | 26000                      | 32500                      |
| Max. DC Input Voltage (V)                         | 1000   |                           |                           |                            |                            |                            |                            |                            |
| Start-up Voltage (V)                              | 180  |                           |                           |                            |                            |                            |                            |                            |
| MPPT Range (V)                                    | 150-850  |                           |                           |                            |                            |                            |                            |                            |
| Full Load DC Voltage Range (V)                    | 195-850  | 195-850                   | 260-850                   | 325-850                    | 340-850                    | 420-850                    | 500-850                    | 625-850                    |
| Rated DC Input Voltage (V)                        | 600  |                           |                           |                            |                            |                            |                            |                            |
| PV Input Current (A)                              | 20+20  |                           |                           |                            | 26+20                      |                            | 26+26                      |                            |
| Max. PV I <sub>sc</sub> (A)                       | 30+30  |                           |                           |                            | 39+30                      |                            | 39+39                      |                            |
| No.of MPP Trackers                                | 2  |                           |                           |                            |                            |                            |                            |                            |
| No.of Strings per MPP Tracker                     | 1+1  |                           |                           |                            | 2+1                        |                            | 2+2                        |                            |
| <b>AC Output Data</b>                             |  |                           |                           |                            |                            |                            |                            |                            |
| Rated AC Output and UPS Power (W)                 | 5000   | 6000                      | 8000                      | 10000                      | 12000                      | 15000                      | 20000                      | 25000                      |
| Max. AC Output Power (W)                          | 5500   | 6600                      | 8800                      | 11000                      | 13200                      | 16500                      | 22000                      | 27500                      |
| AC Output Rated Current (A)                       | 7.6/7.3  | 9.1/8.7                   | 12.2/11.6                 | 15.2/14.5                  | 18.2/17.4                  | 22.8/21.8                  | 30.4/29                    | 37.9/36.3                  |
| Max. AC Output Rated Current (A)                  | 8.4/8  | 10/9.6                    | 13.4/12.8                 | 16.7/16                    | 20/19.2                    | 25/24                      | 33.4/31.9                  | 41.7/39.9                  |
| Max. Three-phase Unbalanced Output Current(A)     | 13   | 13                        | 18                        | 22                         | 25                         | 30                         | 35                         | 40                         |
| Max. Continuous AC Passthrough (A)                | 40   |                           |                           |                            | 80                         |                            |                            |                            |
| Peak Power (off grid)                             | 1.5 time of rated power, 10 S  |                           |                           |                            |                            |                            |                            |                            |
| Generator Input/Smart Load /AC Couple Current (A) | 7.6/40/7.6   | 9.1/40/9.1                | 12.2/40/12.2              | 15.2/40/15.2               | 18.2/80/18.2               | 22.8/80/22.8               | 30.4/80/30.4               | 37.9/80/37.9               |
| Power Factor                                      | 0.8 leading to 0.8 lagging   |                           |                           |                            |                            |                            |                            |                            |
| Output Frequency and Voltage                      | 50/60Hz; 3L/N/PE 220/380, 230/400Vac   |                           |                           |                            |                            |                            |                            |                            |
| Grid Type   | Three Phase  |                           |                           |                            |                            |                            |                            |                            |
| Total Harmonic Distortion (THD)                   | <3% (of nominal power)   |                           |                           |                            |                            |                            |                            |                            |
| DC Current Injection                              | <0.5% I <sub>n</sub>   |                           |                           |                            |                            |                            |                            |                            |
| <b>Efficiency</b>                                 |  |                           |                           |                            |                            |                            |                            |                            |
| Max. Efficiency                                   | 97.60%   |                           |                           |                            |                            |                            |                            |                            |
| Euro Efficiency                                   | 97.00%   |                           |                           |                            |                            |                            |                            |                            |
| MPPT Efficiency                                   | 99.90%   |                           |                           |                            |                            |                            |                            |                            |
| <b>Protection</b>                                 |  |                           |                           |                            |                            |                            |                            |                            |
| Integrated  | Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection |                           |                           |                            |                            |                            |                            |                            |
| Over Voltage Category                             | DC Type II/AC Type III   |                           |                           |                            |                            |                            |                            |                            |
| <b>Certifications and Standards</b>               |  |                           |                           |                            |                            |                            |                            |                            |
| Grid Regulation                                   | VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150  |                           |                           |                            |                            |                            |                            |                            |
| Safety EMC / Standard                             | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2   |                           |                           |                            |                            |                            |                            |                            |
| <b>General Data</b>                               |  |                           |                           |                            |                            |                            |                            |                            |
| Operating Temperature Range (° )                  | -40-60°C, >45°C Derating   |                           |                           |                            |                            |                            |                            |                            |
| Cooling   | Smart Cooling  |                           |                           |                            |                            |                            |                            |                            |
| Noise (dB)  | ≤55 dB   |                           |                           |                            |                            |                            |                            |                            |
| Communication with BMS                            | RS485; CAN   |                           |                           |                            |                            |                            |                            |                            |
| Weight (kg)                                       | 30.5   |                           |                           |                            |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                           | 408×638×237 (Excluding Connectors and Brackets)  |                           |                           |                            |                            |                            |                            |                            |
| Protection Degree                                 | IP65   |                           |                           |                            |                            |                            |                            |                            |
| Installation Style                                | Wall-mounted   |                           |                           |                            |                            |                            |                            |                            |
| Warranty  | 5 Years (10 Years Optional)  |                           |                           |                            |                            |                            |                            |                            |

\*Note: The function of Multiple units work in parallel mode will be available in Q1 2023