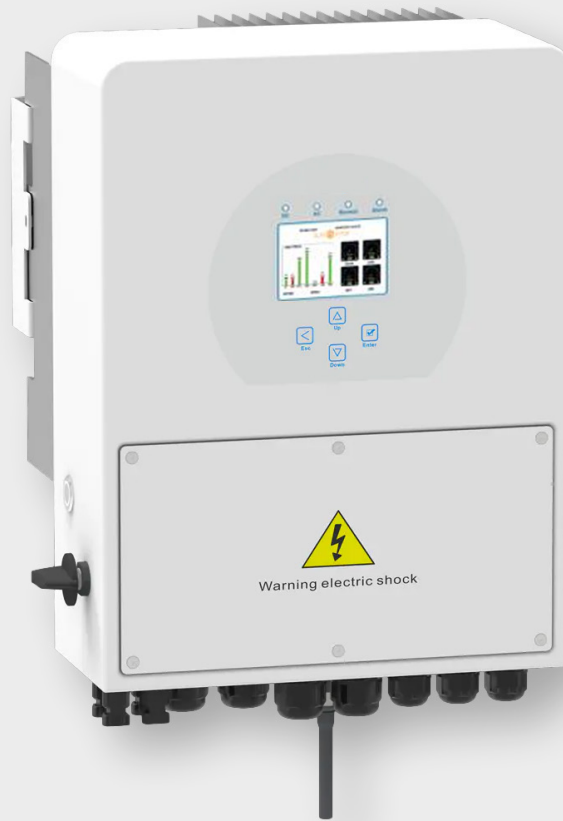




# ECCO HYBRID INVERTER



## DATASHEET

SUN-3K-SG04LP1-24-EU / SUN-3K-SG04LP1-EU  
SUN-3.6K-SG04LP1-EU / SUN-5K-SG04LP1-EU  
SUN-6K-SG04LP1-EU

(SUN-3.6K-SG01LP1) Please update to SG04 via firmware update.

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| Model                                | SUN-3K-SG04LP1-24-EU   | SUN-3K-SG04LP1-EU | SUN-3.6K-SG04LP1-EU | SUN-5K-SG04LP1-EU | SUN-6K-SG04LP1-EU |
|--------------------------------------|--|-------------------|---------------------|-------------------|-------------------|
| <b>Battery Input Data</b>            |  |                   |                     |                   |                   |
| Battery Type                         | Lead-acid or Lithium-ion   |                   |                     |                   |                   |
| Battery Voltage Range                | 20~30V   | 40~60V            |                     |                   |                   |
| Max. Charging Current                | 140A   | 70A               | 90A                 | 120A              | 135A              |
| Max. Discharging Current             | 140A   | 70A               | 90A                 | 120A              | 135A              |
| Charging Curve                       | 3 Stages/Equalisation  |                   |                     |                   |                   |
| Number of Battery Input              | Yes  |                   |                     |                   |                   |
| Charging Strategy for Li-Ion Battery | Self-Adaptation to BMS   |                   |                     |                   |                   |
| <b>PV String Input Data</b>          |  |                   |                     |                   |                   |
| Max. DC Input Power                  | 3900W  | 3900W             | 7000W               | 6500W             | 7800W             |
| PV Input Voltage                     | 370V (125V~500V)   |                   |                     |                   |                   |
| MPPT Range                           | 150~425V   |                   |                     |                   |                   |
| Start-up Voltage                     | 125V   |                   |                     |                   |                   |
| Full Load DC Voltage Range           | 300~425V   |                   |                     |                   |                   |
| PV Input Current                     | 13A  |                   | 13+13A              |                   |                   |
| Max. PV Isc                          | 17A  |                   | 17+17A              |                   |                   |
| No. of MPPT / Strings Per MPPT       | 1/1  |                   | 2/1+1               |                   |                   |
| <b>AC Output Data</b>                |  |                   |                     |                   |                   |
| Rated AC Output and UPS Power        | 3000W  |                   | 3600W               | 5000W             | 6000W             |
| Max. AC Power                        | 3300W  |                   | 3680W               | 5500W             | 6600W             |
| Peak Power (off-grid)                | 2 times of rated power, 10 S   |                   |                     |                   |                   |
| AC Output Rated Current              | 13.6A  |                   | 15.7A               | 22.7A             | 27.3A             |
| Max AC Current                       | 15A  |                   | 17.2A               | 25A               | 30A               |
| Max Continuous AC Passthrough        | 35A  |                   |                     | 40A               |                   |
| Output Frequency and Voltage         | 50/60Hz; L/N/PE 220/230Vac (single phase)  |                   |                     |                   |                   |
| Grid Type                            | Single-Phase   |                   |                     |                   |                   |
| Current Harmonic Distortion          | THD<3%(Linear load<1.5%)   |                   |                     |                   |                   |
| <b>Efficiency</b>                    |  |                   |                     |                   |                   |
| Max. Efficiency                      | 97.60%   |                   |                     |                   |                   |
| MPPT Efficiency                      | 97.00%   |                   |                     |                   |                   |
| Euro Efficiency                      | 99.90%   |                   |                     |                   |                   |
| <b>Protection</b>                    |  |                   |                     |                   |                   |
| Integrated                           | PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Surge protection |                   |                     |                   |                   |
| <b>Certifications and Standards</b>  |  |                   |                     |                   |                   |
| Grid Regulation                      | CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11  |                   |                     |                   |                   |
| Safety EMC / Standard                | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2   |                   |                     |                   |                   |

| General Data                |                          |      |
|-----------------------------|--------------------------|------|
| Operating Temperature Range | -45~60°C, >45°C Derating |      |
| Cooling                     | Natural Cooling          |      |
| Noise                       | <30dB                    |      |
| Communication with BMS      | RS485; CAN               |      |
| Weight                      | 11.4kg                   | 14kg |
| Size                        | 330W x 433H x 238D mm    |      |
| Protection Degree           | IP65                     |      |
| Installation Style          | Wall-mounted             |      |
| Warranty                    | 5 years                  |      |



## CONTACT US

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