

Single-phrase on-grid PCS  
E3K E4K E5K E6K E8K



## Product Features:

EG is delighted to announce the launch of the eagerly anticipated 3rd generation of the hybrid inverter. The EGS battery storage inverter is compatible with the leading lithium-ion battery solutions, making it the most popular energy storage solution.

## Safe & Reliable

Compatible anti counter flow function  
Battery reverse connection protection

## Friendly & flexible

Support multi-machine parallel connection  
Compatible with lead-acid or lithium-iron batteries, etc

## Economical & practical

Intelligent energy management system for home  
Power dispatching and demand side response management node  
Distribute virtual power station management node

| Technical Parameters | E3K               | E3K6   | E4k  | E4K6 | E5K  | E6K  | E8K   |
|----------------------|-------------------|--------|------|------|------|------|-------|
| Input (PV)           |                   |        |      |      |      |      |       |
| Max Input Power      | 4.6 KW            | 4.6 KW | 6 KW | 6 KW | 7 KW | 7 KW | 12 KW |
| Start-up Voltage     | 120 V             |        |      |      |      |      |       |
| Max PV Voltage       | 550 V             |        |      |      |      |      |       |
| MPPT Range / Nominal | 125 ~ 500 / 360 V |        |      |      |      |      |       |
| Max Input Current    | 14 A              |        |      |      |      |      |       |
| MPPT Tracker/Strings | 2/1               |        |      |      |      |      |       |

### Technical Parameters:

| Technical Parameters                    | E3K                             | E3K6      | E4k         | E4K6        | E5K          | E6K        | E8K         |
|-----------------------------------------|---------------------------------|-----------|-------------|-------------|--------------|------------|-------------|
| AC output                               |                                 |           |             |             |              |            |             |
| Rated Power                             | 3 KW                            | 3.6 KW    | 4 KW        | 4.6 KW      | 5 KW         | 6 KW       | 8 KW        |
| Max Output Currerent                    | 13 A                            | 16 A      | 17.4 A      | 20 A        | 21.7 A       | 26 A       | 35 A        |
| Nominal Voltage / Range                 | 230 V / 176 - 270 V             |           |             |             |              |            |             |
| Frequency                               | 50 Hz / 60 Hz                   |           |             |             |              |            |             |
| Power Factor                            | 1.0 (0.8 Lagging - 0.8 leading) |           |             |             |              |            |             |
| THDi                                    | < 3%                            |           |             |             |              |            |             |
| AC Output Topology                      | L+N+PE                          |           |             |             |              |            |             |
| Batteries                               |                                 |           |             |             |              |            |             |
| Battery Voltage Range                   | 40 ~ 58V                        |           |             |             |              |            |             |
| Max Charging Voltage                    | 58V                             |           |             |             |              |            |             |
| Charging / Discharging Current          | 95 / 62.2 A                     | 95 / 75 A | 95 / 83.3 A | 95 / 95.8 A | 95 / 104.2 A | 95 / 110 A | 160 / 160 A |
| Communication Interface                 | CAN                             |           |             |             |              |            |             |
| EPS output                              |                                 |           |             |             |              |            |             |
| Rated Power                             | 3 KW                            | 3.6 KW    | 4 KW        | 4.6 KW      | 5 KW         | 6 KW       | 8 KW        |
| Rated Voltage                           | 230 V                           |           |             |             |              |            |             |
| Rated Current                           | 13 A                            | 16 A      | 17.4 A      | 20 A        | 21.7 A       | 26 A       | 35 A        |
| Rated Frequency                         | 50 Hz / 60 Hz                   |           |             |             |              |            |             |
| Automatic Switching Times               | < 20 MS                         |           |             |             |              |            |             |
| THDu                                    | < 2%                            |           |             |             |              |            |             |
| Overload Capacity                       | 110% 60S / 120% 30S / 150% 10S  |           |             |             |              |            |             |
| General Data                            |                                 |           |             |             |              |            |             |
| Battery Charge / Discharge Efficiency   | 95%                             |           |             |             |              |            |             |
| DC Max Efficiency                       | 97.60%                          |           |             |             |              |            |             |
| MPPT Efficiency                         | 99.90%                          |           |             |             |              |            |             |
| Ingress Protection                      | IP65                            |           |             |             |              |            |             |
| Noise Emission                          | < 35 dB                         |           |             |             |              |            |             |
| Operation Temperature                   | -25°C ~ 60°C                    |           |             |             |              |            |             |
| Cooling                                 | natural                         |           |             |             |              |            |             |
| Relative Humidity                       | 0 ~ 95% (no-condensing)         |           |             |             |              |            |             |
| Altitude                                | 2000 M (>2000M Derating)        |           |             |             |              |            |             |
| Dimension L * D * H                     | 451 * 212 * 474 mm              |           |             |             |              |            |             |
| Weight                                  | 18 kg                           |           |             |             |              |            |             |
| Inverter Topgology                      | transformerless                 |           |             |             |              |            |             |
| Self Consumption                        | < 3 W                           |           |             |             |              |            |             |
| Display and Communication               |                                 |           |             |             |              |            |             |
| Display                                 | /                               |           |             |             |              |            |             |
| Interface RS485 / WiFi / 4G / CAN / DRM | Yes/Opt/opt/Yes/Yes             |           |             |             |              |            |             |