ELEGO STAR

# 6.5KW



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|---|---|---|
| Feed-in to the Grid | Separate Generator Port Available | BMS Built-in BMS |
| Built-in Wi-Fi | Dual Output | Touch Screen |
| Dual MPPT PV Input | Built-in 120A Mppt solar charger | Parallel Operation up to 16 Units |



| MODEL NAME | ELEGO-STAR-6.5KW |
|---|---|
| **RATED POWER** | **6500VA/6500W** |
| **PV INPUT (DC)** | |
| Max. PV array power (W) | 9600 |
| Rated PV input voltage (V) | 320 |
| Number of independent MPPT inputs | 2 |
| PV input voltage range (V) | 100 ~ 500 |
| MPPT voltage range (V) | 120 ~ 400 |
| Start-up voltage (V) | 100 |
| Max. PV input current per MPPT (A) | 17 / 17 |
| Max. PV short-circuit current input per MPPT (A) | 25 / 25 |
| **BATTERY** | |
| Compatible battery type | Lithium-ion / Lead-Acid |
| Rated battery voltage (V) | 48 |
| Battery voltage range (V) | 38.4 ~ 60 |
| Max. charge / discharge current (A) | 140 / 140 |
| Max. charge / discharge power (W) | 6000/6500 |
| Recommend capacity of battery per inverter | >200AH |
| Force wake up battery from PV function | Yes |
| Force wake up battery from Grid function | Yes |
| **GRID** | |
| Rated AC voltage (V) | 230 |
| Rated AC frequency (Hz) | 50 / 60 |
| Rated AC output current (A) | 28.3 |
| Rated AC output power (W) | 6500 |
| Max. AC input power (W) | 9000 |
| Power factor | 0.99 |
| THDI | <5% |
| Max. continuous AC passthrough current (A) | 40 |
| **UPS** | |
| Rated output power (W) | 6500 |
| Rated output voltage (V) | 230 |
| Rated output current (A) | 28.3 |
| Rated output frequency (Hz) | 50 / 60 |
| Surge power, duration | 2Pn, <2s |
| Switching time (Ups ) | <15ms @ single / <30ms @ parallel |
| Wave form | sine wave |
| THDV | 3% |
| **EFFICIENY** | |
| MPPT efficiency | 99.9% |
| Max. efficiency | 93.0% |
| Max. charge efficiency | 93.0% |
| Max. discharge efficiency | 93.0% |
| **PROTECTION** | |
| Over current / voltage protection | YES |
| AC short - circuit current protection | YES |
| Grid monitoring | YES |
| DC surge protection type III | YES |
| AC surge protection type III | YES |
| Battery reverse polarity protection | YES |
| **GENERAL** | |
| Dimensions, W*H*D (mm) | 330*505*135 |
| Weight (Kgs) | 14.5 |
| Ingress protection rating | IP21 |
| Operating environment temperature range (°C) | 0 ~5 0 |
| Storage temperature range (°C) | -15 ~ 60 |
| Relative humidity | 5% ~ 95% |
| Display communication interface | Touch screen, RS485 / Wifi / CAN |
| Cooling method | Smart cooling |
| Topology on AC side | Transformer-less |
| Altitude (M) | <2000m |
| Noise emission (typical) | <50dB |