



**30KW  
50KW**

**HYBRID THREE PHASE SOLAR INVERTER**

**PV - 48000  
PV - 65000**

**PRODUCT KEY FEATURES**

- 👑 IP65 waterproof and dustproof makes the inverter available for various working conditions
- 👑 Four independent MPPT controllers with support of 36A current (50KW)
- 👑 Parallel operation up to 4 units
- 👑 Dual AC input power source supported
- 👑 Reserved communication port for BMS (RS485)
- 👑 Self-consumption & feed-in to the grid
- 👑 User-adjustable charging current & voltage
- 👑 Built-in BMS
- 👑 Built-in wi-fi for mobile monitoring (app is available)
- 👑 User-friendly HMI LCD design and easy configuration



**Feed-in to the Grid**



**Built-in Wi-fi**



**Dual Input**



**Three Phase Operation**



**BMS  
Battery Management System**



**Parallel Operations up to 4 Units**



**IP65 Protection**

☎ 00971-4-8839373

✉ info@crownmicroglobal.com

🌐 www.crownmicroglobal.com



**PV - 48000 | PV - 65000**

**Technical Data**

| MODEL  | ELEGO-OYSTER-30KW-3P                    | ELEGO-OYSTER-50KW-3P              |
|--|---|-----------------------------------|
| <b>RATED OUTPUT POWER</b>                    | 30,000 W                                | 50,000 W                          |
| <b>MAXIMUM PV INPUT POWER</b>                | 48,000 W                                | 65,000 W                          |
| <b>MAXIMUM CHARGING POWER</b>                | 30,000 W                                | 50,000 W                          |
| <b>GRID-TIE OPERATION</b>                    |   |                                   |
| <b>PV INPUT (DC)</b>                         |   |                                   |
| Nominal DC voltage                           | 720 VDC                                 |                                   |
| Maximum DC voltage                           | 1000 VDC                                |                                   |
| Start-up voltage / initial feeding voltage   | 320 VDC / 350 VDC                       |                                   |
| MPPT voltage range                           | 350 VDC ~ 900 VDC                       |                                   |
| Number of MPPT trackers / Max. input current | 3 / A: 36A, B: 36A, C: 36A              | 4 / A: 36A, B: 36A, C: 36A, D:36A |
| Number of strings per MPPT tracker           | A: 2, B: 2, C: 2                        | A: 2, B: 2, C: 2, D:2             |
| <b>GRID-TIE OUTPUT (AC)</b>                  |   |                                   |
| Nominal output voltage                       | 230 VAC (P-N) / 400 VAC (P-P)           |                                   |
| Output voltage range                         | 184 - 265 VAC per phase                 |                                   |
| Output frequency range                       | 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz        |                                   |
| Nominal output current                       | 43.5 A per phase                        | 73 A per phase                    |
| Power factor range                           | 0.9 lag ~ 0.9 lead                      |                                   |
| <b>EFFICIENCY</b>                            |   |                                   |
| Max. conversion efficiency (DC/AC)           | 96.5%                                   |                                   |
| European efficiency@ vnominal                | 96%                                     |                                   |
| <b>OFF-GRID OPERATION</b>                    |   |                                   |
| <b>AC INPUT</b>                              |   |                                   |
| AC start-up voltage                          | 120 - 140 VAC per phase                 |                                   |
| Auto restart voltage                         | 180 VAC per phase                       |                                   |
| Acceptable input voltage range               | 170 - 280 VAC per phase                 |                                   |
| Max. AC input current                        | 50 A                                    | 83 A                              |
| <b>PV INPUT (DC)</b>                         |   |                                   |
| Max. DC power                                | 40,000 W                                | 65,000 W                          |
| Max. DC voltage                              | 1000 VDC                                |                                   |
| MPPT voltage range                           | 350 VDC ~ 900 VDC                       |                                   |
| Number of MPPT trackers / Max. input current | 3 / A: 36A, B: 36A, C: 36A              | 4 / A: 36A, B: 36A, C: 36A, D:36A |
| Number of strings per MPPT tracker           | A: 2, B: 2, C: 2                        | A: 2, B: 2, C: 2, D:2             |
| <b>BATTERY MODE OUTPUT (AC)</b>              |   |                                   |
| Nominal output voltage                       | 230 VAC (P-N) / 400 VAC (P-P)           |                                   |
| Output frequency                             | 50 Hz / 60 Hz (auto sensing)            |                                   |
| Output waveform                              | Pure sine wave                          |                                   |
| Efficiency (DC to AC)                        | 97%                                     |                                   |
| <b>HYBRID OPERATION</b>                      |   |                                   |
| <b>PV INPUT (DC)</b>                         |   |                                   |
| Max. DC power                                | 40,000 W                                | 65,000 W                          |
| Nominal DC voltage                           | 720 VDC                                 |                                   |
| Max. DC voltage                              | 1000 VDC                                |                                   |
| Start-up voltage / Initial feeding voltage   | 320 VDC / 350 VDC                       |                                   |
| MPPT voltage range                           | 350 VDC ~ 900 VDC                       |                                   |
| Number of MPPT trackers / Max. input current | 3 / A: 36A, B: 36A, C: 36A              | 4 / A: 36A, B: 36A, C: 36A, D:36A |
| Number of strings per MPPT tracker           | A: 2, B: 2, C: 2                        | A: 2, B: 2, C: 2, D:2             |
| <b>GRID/UTILITY OUTPUT (AC)</b>              |   |                                   |
| Nominal output voltage                       | 230 VAC (P-N) / 400 VAC (P-P)           |                                   |
| Output voltage range                         | 184 - 265 VAC per phase                 |                                   |
| Output frequency range                       | 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz        |                                   |
| Nominal output current                       | 43.5 A per phase                        | 73 A per phase                    |
| Power factor range                           | 0.9 lag ~ 0.9 lead                      |                                   |
| <b>AC INPUT</b>                              |   |                                   |
| AC start-up voltage                          | 120 - 140 VAC per phase                 |                                   |
| Auto restart voltage                         | 180 VAC per phase                       |                                   |
| Acceptable input voltage range               | 170 - 280 VAC per phase                 |                                   |
| Max. AC input current                        | 50 A                                    | 83 A                              |
| <b>BATTERY MODE OUTPUT (AC)</b>              |   |                                   |
| Nominal output voltage                       | 230 VAC (P-N) / 400 VAC (P-P)           |                                   |
| Output frequency                             | 50 Hz / 60 Hz (auto sensing)            |                                   |
| Output waveform                              | Pure sine wave                          |                                   |
| Efficiency (DC to AC)                        | 97%                                     |                                   |
| <b>BATTERY &amp; CHARGER</b>                 |   |                                   |
| Battery voltage range                        | 200 ~ 900 VDC                           | 200 ~ 900 VDC                     |
| Max. charging current                        | 50 A                                    | 100A                              |
| <b>GENERAL</b>                               |   |                                   |
| <b>PHYSICAL</b>                              |   |                                   |
| Dimension, D*W*H (mm)                        | 290 x 580 x 900                         |                                   |
| Net weight (kgs)                             | 85                                      | 90                                |
| <b>INTERFACE</b>                             |   |                                   |
| Communication port                           | RS-232, USB, Dry contact, RS-485, Wi-fi |                                   |
| Intelligent slot                             | Optional SNMP or MODBUS                 |                                   |
| <b>ENVIRONMENT</b>                           |   |                                   |
| Humidity                                     | 0 ~ 100% RH                             |                                   |
| Operating temperature                        | -25 to 60°C, > 45°C derating            |                                   |
| Altitude                                     | 0 ~ 1000 m**                            |                                   |

\*\*Power derating 1% every 100 m when altitude is over 1000m

**Product specifications are subject to change without further notice.**