



**6KW
10KW**

HYBRID SINGLE PHASE SOLAR INVERTER

**PV - 9000
PV - 15000**



AI—Introducing the world's first AI-based solar inverter!

PRODUCT KEY FEATURES

- ✠ Flexible operating modes: off-grid, on-grid with backup & hybrid
- ✠ Integrated communication interfaces: RS485, wi-fi, CAN
- ✠ Battery compatibility: Lead Acid & Lithium-ion
- ✠ Built-in surge protection for AC/DC type III
- ✠ Overload, short circuit & over-heated protections
- ✠ Multiple MPPTs for efficient solar input
- ✠ Separate smart load / generator connection
- ✠ Weather optimization & smart cooling method
- ✠ Wide operating temperature range (-25°C to 60 °C)
- ✠ Remote monitoring via app or web portal
- ✠ Aluminium casing for enhanced durability and corrosion protection



VDC Range
100~530



24/7
Real-Time
Monitoring APP



Dual
Output



Max Efficiency
99.9%



LCD with
Touch Pad



Battery
Management
System



Parallel
Operations
up to 6 Units



IP65
Protection

Technical Data

MODEL NAME	ELEGO-OYSTER-6KW	ELEGO-OYSTER-10KW
RATED POWER	6000VA/6000W	10000VA/10000W
PV INPUT (DC)		
Max. PV array power (W)	9000	15000
Rated PV input voltage (V)	360	360
Number of independent MPPT inputs	2	2
PV input voltage range (V)	100 ~ 530	100 ~ 600
MPPT voltage range (V)	150 ~ 425	120 ~ 500
Start-up voltage (V)	140	140
Max. PV input current per MPPT (A)	18	25
Max. PV short-circuit current input per MPPT (A)	32	34
BATTERY		
Compatible battery type	Lithium / Lead-Acid	Lithium / Lead-Acid
Rated battery voltage (V)	48	48
Battery voltage range (V)	40 ~ 60	40 ~ 60
Max. charge/discharge current (A)	125/140	210
Max. charge/discharge power (W)	6000	10000
Force wake up battery from PV function	Yes	Yes
GRID		
Rated AC voltage (V)	230	230
Rated AC frequency (Hz)	50/60	50/60
Rated AC output current (A)	26	44
Rated AC output power (W)	6000	10000
Max. AC input power (W)	12000	15000
Power factor	0.99	
THDI	<3%	<3%
Max. continuous AC passthrough current (A)	52	90
UPS		
Rated output power (W)	6000	10000
Rated output voltage (V)	230	230
Rated output current (A)	26	44
Rated output frequency (Hz)	50/60	50/60
Surge power, duration	2Pn, 0.5s	2Pn, 0.5s
Switching time (UPS)	< 20ms	< 20ms
Waveform	Sine wave	Sine wave
THDV	< 5%	< 3%
EFFICIENCY		
MPPT efficiency	99.9%	99.9%
Max. efficiency	97.3%	97.5%
Max. charge efficiency	94.5%	94.0%
Max. discharge efficiency	94.5%	94.0%
PROTECTION		
Over current / voltage protection	Yes	Yes
Anti-islanding protection	Yes	Yes
AC short-circuit current protection	Yes	Yes
Leakage current protection	Yes	Yes
Ground fault monitoring	Yes	Yes
Grid monitoring	Yes	Yes
DC switch	Yes	Yes
DC surge protection type III	Yes	Yes
AC surge protection type III	Yes	Yes
GENERAL SPECIFICATION		
Dimensions, W*H*D (mm)	487*455*211.7	536*556*290
Weight (Kgs)	29	42.64
Ingress protection rating	IP65	IP65/NEMA 4X
Operating environment temperature range (°C)	-25 ~ 60	0 ~ 100%
Storage temperature range (°C)	-40 ~ 65	-25 ~ 60
Relative humidity	0 ~ 95%	-25 ~ 60
Display communication interface	LCD+RGB, RS485/wi-fi/CAN	Touch color screen, RS485/wi-fi/CAN
Cooling method	Smart cooling	
Topology on AC side	Transformer-less	
Altitude (M)	<2000m	
Noise emission (typical)	<25dB	<50dB

Product specifications are subject to change without further notice.