

Single-Phase **PV 15000** ELEGO-OYSTER-10KW

Pure Sine Wave Hybrid Solar Inverter



Features



- ✦ Ingress protection rating 65 for indoor/outdoor installation
- ✦ Aluminum Casing for enhanced durability and corrosion resistance
- ✦ Multiple MPPTs for efficient solar input
- ✦ MPPT Efficiency 99.9%
- ✦ Support up to 6 Units in Parallel
- ✦ Battery Compatibility: Supports Lead-Acid, Lithium-ion, and LiFePO4
- ✦ Flexible Operating Modes: Off-Grid, On-Grid with Backup, Hybrid
- ✦ Overload, Short Circuit, and Over Temperature Protections
- ✦ Built-in Surge protection for AC/DC Type III
- ✦ Remote Monitoring via app or web portal
- ✦ Separate Smart load/generator connection
- ✦ Integrated Communication Interfaces: RS485, Wi-Fi, CAN
- ✦ Wide Operating Temperature Range (-25°C to 60°C)
- ✦ Smart Cooling Method
- ✦ Compliance with Safety and Grid Standards
- ✦ Wall-Mounted Design for easy installation
- ✦ Weather Optimization



IP 65
Protection



Battery Management
System



24/7
Real-Time
Monitoring APP



Parallel
Operations
up to 6 units



Dual Output



VOC
100-600VDC



Color LCD
With Touch
Screen



MPPT Efficiency
99.9%

Specification:

INPUT (PV DC)		10K
Max. PV array power(W)		15000
Rated PV input voltage(V)		360
Number of independent MPPT inputs		2
PV input voltage range(V)		100~600
MPPT voltage range(V)		120~500
Start-up voltage(V)		140
Max. PV input current per MPPT(A)		25
Max. PV short-circuit current input per MPPT(A)		34
Battery		
Compatible battery type		Lithium-ion/Lead-Acid
Rated battery voltage(V)		48
Battery voltage range(V)		40~60
Max. charge/discharge current(A)		210
Max. charge/discharge power(W)		10000
Force wake up battery from PV function(Y/N)		YES
Grid		
Rated AC voltage(V)		230
Rated AC frequency(Hz)		50/60
Rated AC output current(A)		43.5
Rated AC output power(W)		10000
Max. AC input power(W)		15000
PF		0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDI		<3%
Max. continuous AC passthrough current(A)		90
UPS		
Rated output power(W)		10000
Rated output voltage(V)		230
Rated output current(A)		43.5
Rated output frequency(Hz)		50/60
Surge power, duration		2Pn, 0.5s
Switching time		<20ms
Wave form		Sine wave
THDV		<3%
Efficiency		
MPPT efficiency		99.9%
Max. efficiency@PV to grid		97.5%
Max. efficiency@battery to grid		94%
Max. charge/discharge efficiency		94%
Protection		
PV reverse polarity protection		YES
Over current/voltage protection		YES
Anti-islanding protection		YES
AC Short-circuit current protection		YES
Leakage current protection		YES
Ground fault monitoring		YES
Grid monitoring		YES
DC Switch		YES
AC/DC Surge protection Type III		YES
General		
Dimensions(W*H*D)		536*556*290mm/21.1*21.9*11.4inch
Weight		42.64kg/94lbs
Ingress protection rating		IP65/NEMA 4X
Relative humidity		0~100%
Operating environment temperature range(°C)		-25~60
Storage temperature range(°C)		-25~60
Display & Communication interface		Touch color screen, RS485/Wifi/CAN
Cooling method		Smart cooling
Altitude		<2000m
Noise emission(typical)		<50dB