

Single-Phase **PV 9000** ELEGO-OYSTER-6KW

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



IP 65
Protection



Battery Management
System



24/7
Real-Time
Monitoring APP



Parallel
Operations
up to 6 units



Dual Output



VOC
100-530VDC



Touch Pad



MPPT Efficiency
99.9%

Specification:

INPUT (PV DC)		6K
Max. PV array power(W)		9000
Rated PV input voltage(V)		360
Number of independent MPPT inputs		2
PV input voltage range(V)		100~530
MPPT voltage range(V)		150~425
Start-up voltage(V)		140
Max. PV input current per MPPT(A)		18
Max. PV short-circuit current input per MPPT(A)		32
Battery		
Compatible battery type		Lithium-ion/Lead-Acid
Rated battery voltage(V)		48
Battery voltage range(V)		40~60
Max. charge/discharge current(A)		125/140
Max. charge/discharge power(W)		6000
Force wake up battery from PV function		YES
Grid		
Rated AC voltage(V)		230
Rated AC frequency(Hz)		50/60
Rated AC output current(A)		26
Rated AC output power(W)		6000
Max. AC input power(W)		12000
PF		0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDI		<3%
Max. continuous AC passthrough current(A)		52.2
UPS		
Rated output power(W)		6000
Rated output voltage(V)		230
Rated output current(A)		26
Rated output frequency(Hz)		50/60
Surge power, duration		2Pn, 0.5s
Switching time(UPS)		20ms
Wave form		sine wave
THDV		<5%
Efficiency		
MPPT efficiency		99.9%
Max. efficiency		97.3%
Max. charge efficiency		94.5%
Max. discharge efficiency		94.5%
Protection		
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
DC Surge protection Type III		YES
AC Surge protection Type III		YES
General		
Dimensions(W*H*D)		487*455*211.7mm/19.2*17.9*8.3inch
Weight(kg)		29kg/64lbs
Ingress protection rating		IP65
Operating environment temperature range(°C)		-25~60
Storage temperature range(°C)		-40~65
Relative humidity		0~95%
Display & Communication interface		LCD+RGB, RS485/Wi-Fi/CAN
Cooling method		Smart cooling
Topology on AC side		Transformer-less
Altitude(m)		2000
Noise emission(typical)		<25
DC connection(VP-D4/MC4(Optional))		MC4
AC connector		YES