

Single Phase Hybrid Inverter



Feed-in to the Grid



Peak Shaving / AC Coupling Function



2 MPPT, Max. PV Input 6.5KW: 9.6KW
10KW: 15KW



Separate Generator Port Available
Intelligent Generator Control



IP66 Protection



Max. Charging & Discharging
Current: 210A

BMS

Built-in BMS



Smart Scheduling For Charge &
Discharge Cycles



Parallel Operation 6.5KW: 6 Units
up to: 10KW: 10 Units



ELEGO OYSTER 6.5KW
10KW



MODEL NAME	ELEGO-OYSTER-6.5KW	ELEGO-OYSTER-10KW
RATED POWER	6500VA/6500W	10000VA/10000W
PV INPUT (DC)		
Max. PV array power (W)	9600	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)	125/145	208
Max. charge/discharge power (W)	6500	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)	28.2	44
Rated AC output power (W)	6500	10000
Max. AC input power (W)	12000	15000
Power factor		0.99
THDI	<3%	<3%
Max. continuous AC passthrough current (A)	52.2	90
UPS		
Rated output power (W)	6500	10000
Rated output voltage (V)	230	230
Rated output current (A)	28.2	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	IP66	IP66/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