

1. MLT Inverter Oasis Setup SOP – Pylon Battery

1.1 Oasis – Off-grid solution

1.1.1 Specifications

1.1.1.1 Inverter spec.:

	Oasis 448	Oasis 648
Rated Voltage / Frequency	1 ϕ / 230 V / 50 Hz	1 ϕ / 230 V / 50 Hz
Rated Output Power	4 kVA	6 kVA
Rated Output Current	17 A (40 A with AC source)	26 A (60 A with AC source)
Maximum Output Current	26 A (for 30s), 34 A (for 2s), 40 A (with AC source)	39 A (for 30s), 52 A (for 2s), 60 A (with AC source)
THD V (at rated power)	< 5 %	< 5 %
Protection	Surge, Overload, Short circuit, Over temperature, Reverse power, Low / High battery voltage, Source over/under voltage/frequency	
Changeover time	Less than 30ms changeover time after source failure.	

1.1.1.2 AC Input

Input Voltage Range	185 .. 250 V	185 .. 250 V
Input Frequency Range	42 .. 65 Hz	42 .. 65 Hz
Rated Input Current	40 A	60 A

1.1.1.3 DC Specifications

Battery Voltage (Nominal)	48 V	
Maximum Charging Current	20 / 40 A	25 / 50 A (48 V)
Battery Technology	Lead-Acid, Li-Ion ¹	

¹ Contact MLT Inverters for details on supported Batteries.

1.1.1.4 Efficiency

	Oasis 448	Oasis 648
Efficiency	Up to 94 %	Up to 94 %
No Load Power Consumption (On)	< 35 W	< 40 W
No Load Power Consumption (Load Sense)	6 W	6 W

1.1.1.5 General Specifications

	Oasis 448	Oasis 648
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Mounting Method	Wall Mounted	
Dimensions (W x H x D)	355 x 580 x 210 mm	380 x 700 x 210 mm
IP/NEMA Rating	IP20 / NEMA1	IP20 / NEMA1
Colour	RAL9002 / RAL9011	RAL9002 / RAL9011
Weight	43 kg	62.5 kg
Architecture	Galvanically Isolated, Forced Air Cooling	

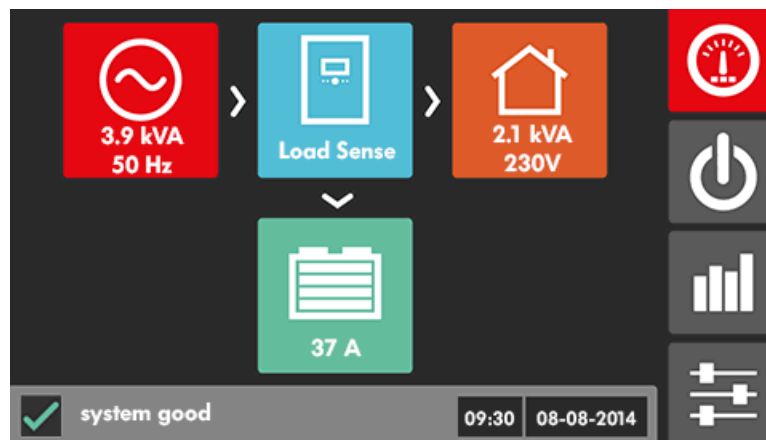
1.1.1.6 Climatic Conditions

Ambient Temperature	-5 .. 45 °C
Ambient Transport Temperature	-25 .. 70 °C
Maximum Ambient for Rated Power	40 °C
Relative Humidity (Non-Condensing)	5 .. 85 %
Maximum Altitude for Rated Power	1000 m above sea level (Derate power for Higher Altitude)

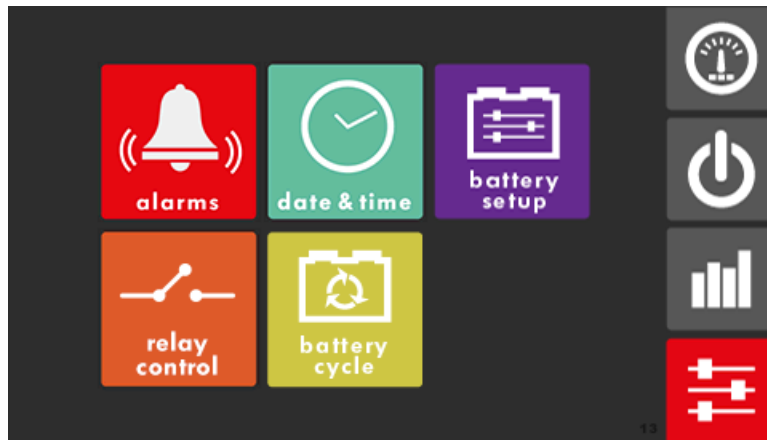
1.1.2 (3) Inverter setup:

- (a) Connect the inverter to the battery to wake up the inverter.

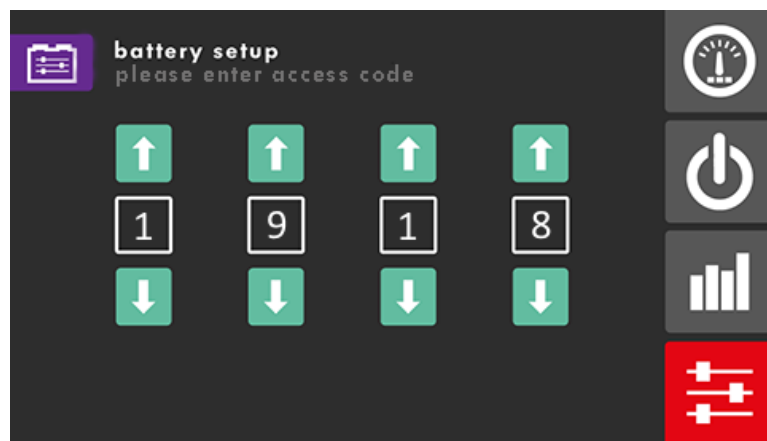
Note: A DC disconnect with pre-charge should be connected between the battery and the Oasis. In order to wake up the Inverter, press the pre-charge button until the screen turns on and then close the DC disconnect.



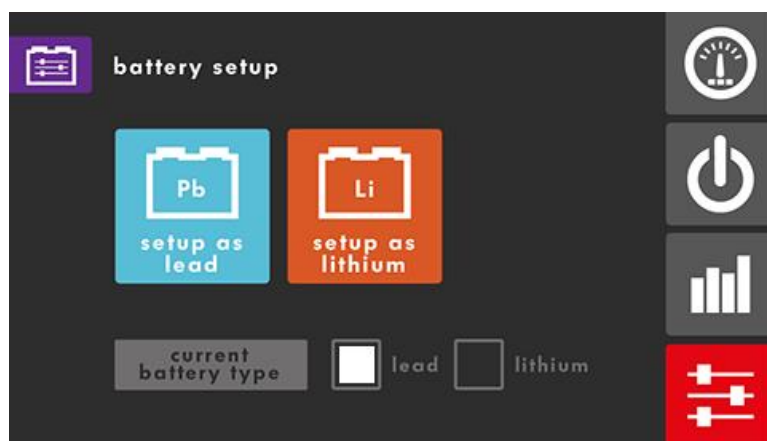
- (b) Press the setting button (bottom right corner of the screen)



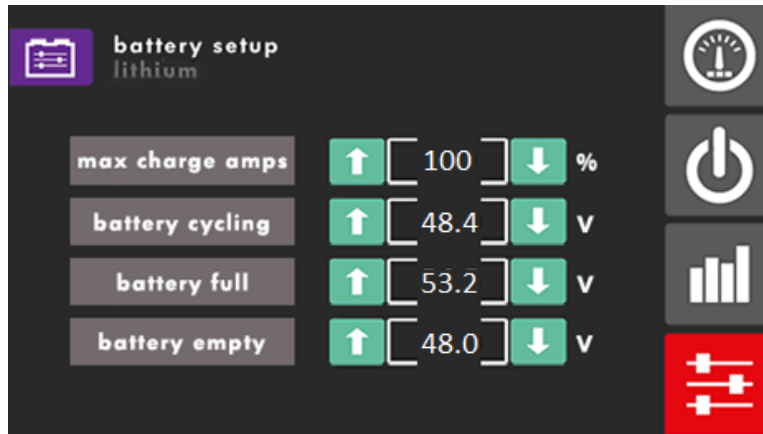
(c) Press the battery setup button



(d) Enter the access code 1918



(e) Press the 'setup as lithium' button



(f) Set the values as indicated in the above image

Note: The Oasis inverter can only be operated with a battery. If the battery shuts down for any reason, it will need to be turned back on manually.