

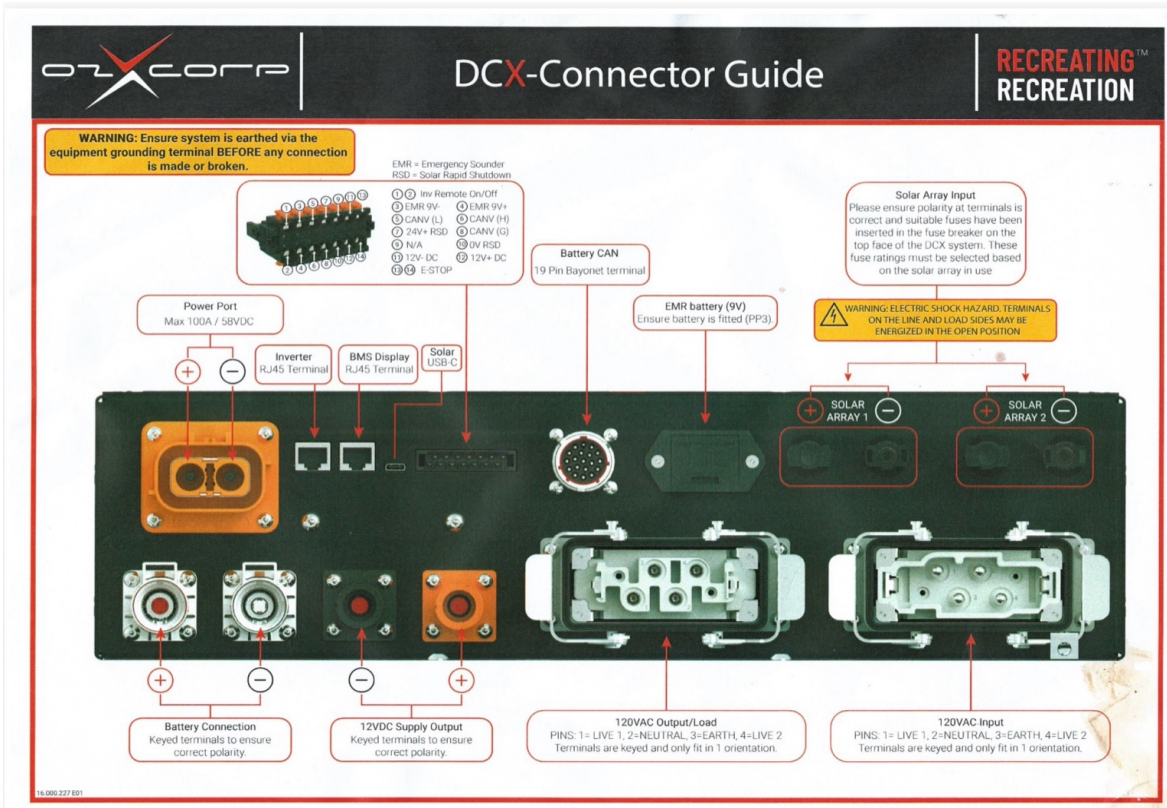
OZX DCX 6KW North America

Professional Technical & Installation Manual

This document consolidates technical specifications, connector information, user interface details, electrical architecture and operating guidance for the OZX DCX 6KW 120VAC North American power system.

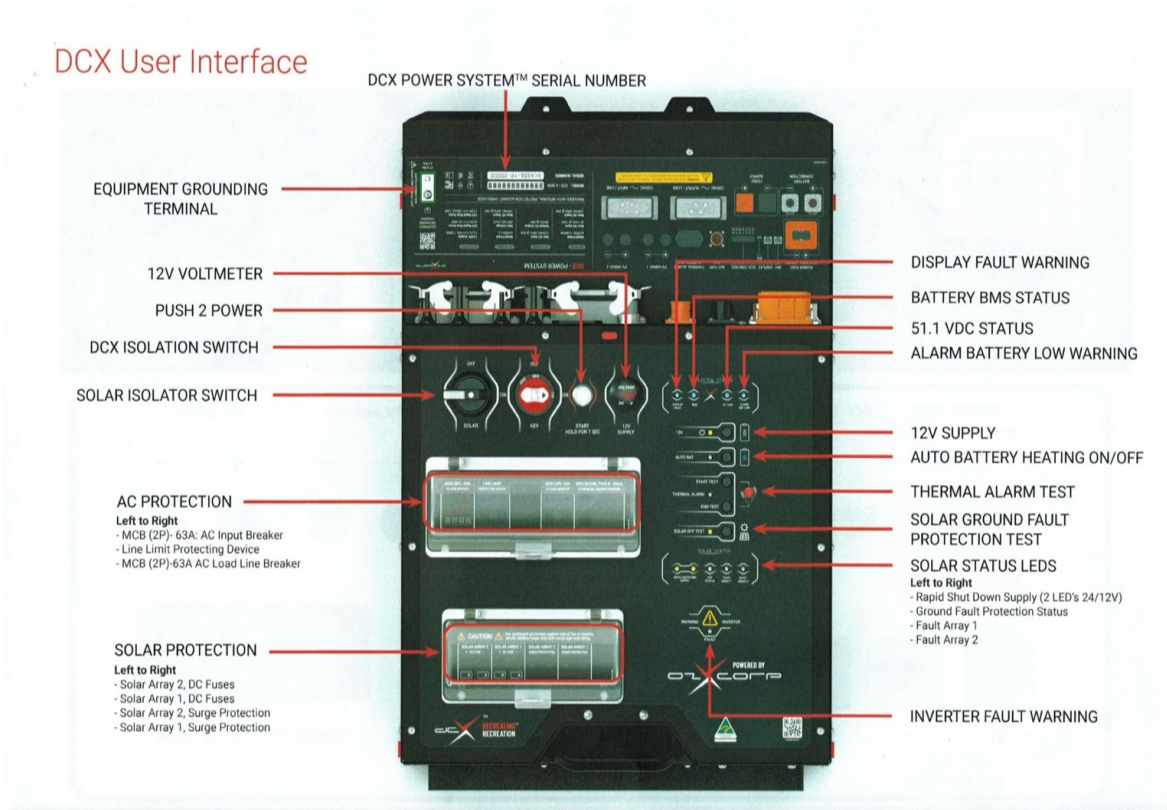
Specification	Value
Model	OZX-6KW
Rated Inverter Power	6000W / 6000VA
Battery Input	51.1VDC @ 130A
AC Output	120VAC, 60Hz, 54A
AC Input	120VAC, 60Hz, 50A
Battery Charger	58VDC @ 30A
PV Input	2 x 4000W MPPT
Maximum PV Voltage	250VDC Voc
MPPT Range	90-230VDC
MPPT Start Voltage	80VDC
12V Output	13.2V, 90A, 1188W
Rapid Shutdown	24V, 2A, 48W

DCX Connector Guide



Major connectors include: • Power Port (58VDC battery power) • Inverter RJ45 • BMS Display RJ45 • Solar USB-C • Battery CAN (19-pin) • Solar Array 1 and Solar Array 2 • 120VAC Input • 120VAC Output / Load • 12VDC Auxiliary Output

DCX User Interface



Front panel functions: • DCX Isolation Switch • Solar Isolation Switch • Push-To-Power Button • 12V Voltmeter • Battery BMS Status Indicators • 51.1V System Status • Low Battery Alarm • Auto Battery Heating Control • Thermal Alarm Test • Solar Ground Fault Test • AC Protection Breakers • Solar Protection Fuses

Operating Procedure

1. Verify battery connections and grounding. 2. Connect Battery CAN communication. 3. Connect solar arrays observing polarity. 4. Connect shore power or generator to AC INPUT. 5. Turn ON battery isolation switch. 6. Turn ON solar isolation switch. 7. Press Power button and verify system status LEDs. 8. Connect loads to AC OUTPUT. 9. Monitor battery, charging and inverter status.

Safety Information

- Disconnect all power sources before servicing.
- Verify polarity before connecting battery or PV inputs.
- Use appropriate conductor sizes and fusing.
- Ensure adequate ventilation around cooling fans.
- Ground the equipment before energizing the system.
- Installation should be performed by qualified personnel.

Applications

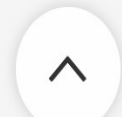
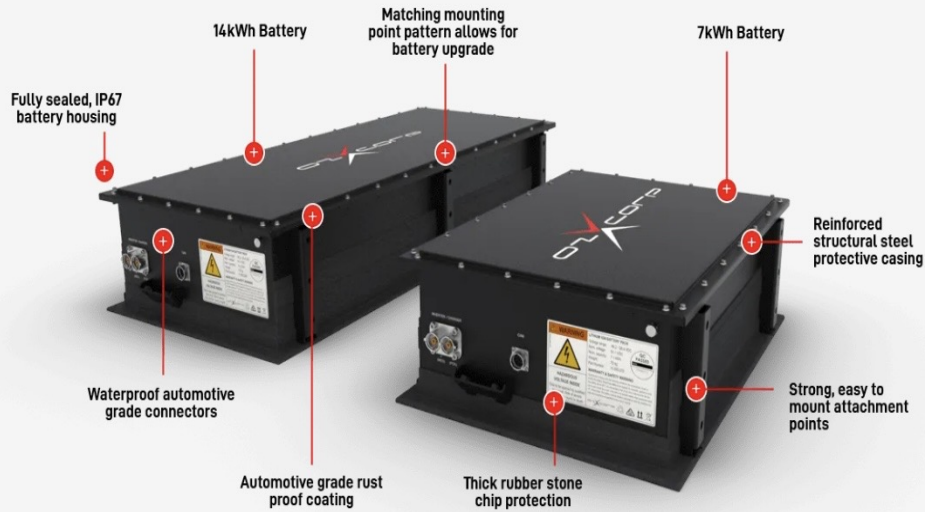
RVs, campers, off-grid cabins, emergency backup systems, mobile workshops, overlanding vehicles and solar energy storage applications.

Battery System Addendum

OZX DCX Battery Platform

14 AND 7KWH BATTERY

The powerful DCX Batteries are safe, robust, lightweight, waterproof and specifically designed for the recreational market.



Battery Specification	Value
Battery Options	7kWh and 14.3kWh

Nominal Voltage	51.1VDC
Operating Voltage Range	46.2VDC – 58.4VDC
Nominal Capacity	14.3kWh (large version)
Battery Weight	140 kg (308 lb)
Protection Rating	IP67
Battery Housing	Fully sealed
Connectors	Waterproof automotive-grade connectors
Protective Structure	Reinforced steel casing
Coating	Automotive-grade corrosion protection
Mounting	Heavy-duty attachment points