

SOLAR TRAILER

EIGHT PANEL SOLAR TRAILER

CBO's eight panel solar trailer is a hybrid solution with an on-board auto-start DC Diesel generator to augment the power supply. This solution is suitable for multiple device loads and mission critical assets which require reliability in power regardless of the environmental conditions. Due to the open, modular design of the tandem axle platform, there is significant space available for client customisation and device integration specifically to suit the given application.

FEATURES

DIMENSIONS

Overall Length	5.8m
Overall Width	2.2m
Overall Height	2.2m (transport mode, excluding elevation option)
GVM	3500kg
TARE	2600kg (approx)
MAX Client Load	900kg (approx)

MECHANICAL

Materials	Mixed Size, structural mild steel
Finish	Hot dip galvanising
Suspension	Heavy duty leaf springs
Braking	Electric Drums with break-away
Rim Tyre Size	235/65R16
Tow Hitch	50mm Ball OR 76mm Pintle Ring

BATTERY BANK

Bank Options	12v @ 3000 a/hr OR 24v @ 1500 a/hr OR 48v @ 750 a/hr
Battery Enclosure	Fixed position, top lid, rear access, IP54 - 2 OF (Optional dual row roller slide available)
External DC Charge Point	50 Amp Anderson Connector



BACK-UP POWER

Generator	3 Kw 24 OR 48VDC Air-cooled diesel (Optional upgrade to a 5kW DC Diesel Generator)
Control	PLC Controlled, auto-start, on-demand.

SOLAR ARRAY

PV Panels - 8 OF	Sunpower MAX3 360w Optional upgrade to MAX3 400w panel available.
Array type	Fixed angle - Specific to Client site

POWER CONTROL & DISTRIBUTION

Solar Regulator	Multi Power Point Tracker (MPPT)
Circuit Breakers	C Curve DC rated Single Pole
Master Isolators	Single Pole
Enclosure PC&D	Steel powdercoated, 600 x 600 x300, IP66
Available Circuits - Client	6 - Common voltage
Enclosure - Client Equipment	Steel powdercoated, 600 x 600 x300, IP66

ELEVATION OPTIONS

The Tandem axle platform has been designed to cater for a range of telescopic elevation solutions for large and complex device payloads. The standard unit offered is the Willburt 7-30 Heavy Duty Locking pneumatic mast which caters for a 90kg payload. Alternatives up to 18 meters or up to 240kg are available.