Cel-Fi Repeater Tower, AL340 Deployable Tripod

Model Number

ENG-PT-00038

Platform

Tripod Tower

Height System

AL340, 11 metres

Solar System

350 W, 100 Ah LiFePO4, 12 Vdc

Repeater Technology

Cel-Fi G31, Telstra or Optus

The Deployable Cel-Fi Repeater Tower is a unique quick-deployed mobile coverage solution for blackspot areas This system is designed to meet the need for a low cost and quick mobile coverage solution for temporary and semi-permanent mining, agriculture, roadworks, and construction operations.

This system is designed to provide a wide beam of outdoor 4G mobile coverage to a distance of up to 400 metres, capable of operating even in a locations with very weak coverage. It can be used as a relay, with other repeaters aiming back to this 'master' site potentially beyond 1 kilometre.

Able to be set up in about an hour or two with a team of two, this tripod tower allows instant mobile voice and data coverage anywhere within range of a base station - no footing required. The bolt-together design means easy shipment to site, and the included winch allows raising and lowering of the tower eliminating the need for tower climbs.

Operation is simple and effective; the lattice tower modules are assembled, locked into position using M12 zinc bolts, and then raised using a powerful 1.2 tonne winch system. The winch-up design eliminates the need for an elevated work platform or a certified tower rescue team to perform maintenance work.

- Choose from Telstra or Optus 4G
- 10 metre hinging aluminium tower
- Solar power system suitable for most areas
- Remote management available through Powertec National Operations Centre
- Pre-built, quick setup time.

System Technical Data

ELECTRICAL SYSTEM

System Voltage	12 Vdc	Battery Type	Lithium LiFePO4
Batteries	1	Battery Capacity, Total	100 Ah
Solar Panels	2	Nominal Power, Total	350 W
Controller	Victron MPPT	Monitorable	Victron Cerbo GX

REPEATER SYSTEM

Repeater	Cel-Fi G31	Frequency	Band 28 700 MHz
Relay Bandwidth	20 MHz	MIMO	1x1 SISO
Max. DL Power	+16 dBm	Max. UL Power	+22 dBm

PHYSICAL CHARACTERISTICS

Tower Series	AL340	Face Width	340 mm
Material	6005 T5 Aluminium Alloy, 50 x 50 mm, 2.5 mm wall SHS, AS 1163-C350L0	Finish	Raw Aluminium, Hot dipped galvanised, Duragal to AS 4792
Dimensions	9940 mm ø (4470 mm outrigger length)	Weight	380 kg

QTY	COMPONENTS
1	1.0 m galvanised tripod base
3	Galvanised outrigger triangular sections (labelled A, B, C)
3	1400 mm galvanised outrigger extension sections (labelled A, B, C)
3	1500 kg rated levelling jacks
1	AL340 aluminium lattice base module (labelled 1)
2	AL340 aluminium lattice modules (labelled 2, 3)

QTY	COMPONENTS
1	Electrical and equipment cabinet
1	Gin Pole Assembly
1	Pulley Block
1	Guy wire kit, pre-assembled
1	1.2 tonne rated winch assembly
1	Grid Parabolic or Yagi Donor Antenna + Cable
1	Sector Service Antenna + Cable
1	Solar panel mount with pre-fitted panel

Document Generated on 26/11/2021 11:01 AM

OBSEQUENTIA
SAFETY CERTIFIED
AS/NZS 4801:2001

OBSEQUENTIA
QUALITY CERTIFIED
ISO 9001:2015

OBSEQUENTIA
ENVIRONMENT CERTIFIED
ISO 14001:2015