

## 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 G41, Telstra, Vodafone 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 G41	Frequency	Band 28 700 MHz
Relay Bandwidth	20 MHz	MIMO	1x1 SISO
Max. DL Power	+20 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 $\varnothing$ (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



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