

## Cel-Fi Repeater Tower, AL340 Deployable Skid

### Model Number

ENG-PT-00037

### Platform

Skid

### Height System

AL340, 10 metres

### Solar System

350 W, 100 Ah LiFePO4, 12 Vdc

### Repeater Technology

Cel-Fi G31, Telstra or Optus



The Deployable Cel-Fi Repeater Skid 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, 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.

The bolt-together design means easy shipment to site and the winch-up design allows raising and lowering of the tower for easy and safe maintenance of equipment - no climbing required. The unique skid-mount lattice tower consists of a heavy duty 600 kg galvanised skid, three 3.1 metre lattice sections, guy wires, and a spigot headframe.

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
- 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	3000 x 1640 x 2000 mm (L x W x H)	Weight	670 kg

## QTY COMPONENTS

1	600 kg galvanised steel skid
1	AL340 aluminium lattice base module (labelled 1)
2	AL340 aluminium lattice modules (labelled 2, 3)
1	1.2 tonne rated winch assembly
1	Guy wire kit, pre-assembled
1	Electrical and equipment cabinet

QTY

COMPONENTS

1	Grid Parabolic Donor Antenna + Cable
1	Sector Service Antenna + Cable
1	Solar panel mount with pre-fitted panel

Document Generated on 2/11/2021 1:58 PM

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

