

## MTGA 1000 Series Semi-Portable Base Station

The MTGA 1000 series base station is a semi-portable communications infrastructure solution designed to support approximately 1000-1600 Watts of continuous power draw with an effective redundancy of up to 5 days on batteries alone. The base station is constructed from heavy gauge tube steel on a galvanized skid frame and is engineered to handle the harsh Australian environment. Our clients typically utilize this model in LTE applications to support a single sector or cell.

This solution utilizes twelve (12) or eighteen (18) high-efficiency 360 – 400 Watt solar panels using a patent-pending sliding assembly allowing for safe, simple, and easy single-personnel deployment. Having a sliding array assembly enables compact stow for transport, eliminating an elaborate set-up and pack-down process for multiple solar panels. The additional six (6) panels at the front are deployed with linear actuators.

The base station features batteries housed within four (4) ergonomically designed trays to provide ease of access.

The trailer supports a 17 to 32-metre aluminium lattice mast for deployment equipment and includes an air-conditioned, double-walled insulation shelter to house the power and network equipment if required. The mast is deployed using a simple sliding, locking, tilting, and raising process and can be set-up in less than 10 minutes.

### Specifications

Mass	Approx. 8 – 11 tonnes
Type	Semi-Portable Base Station
Power Output (Cont.)	1000 - 1600 Watts
Mast Height	17 - 32 metres
Mast Type	Aluminium Lattice
Mast Actuation	Electric Cable Winch
Supported Headload	90 - 160 kg (at Apex)
Supported Wind	134km/h or 80 km/h @ 1.0 m2 (Guyed and un guyed)
Battery Redundancy	Up to 5 Days
Generator Redundancy	6 Days (200L Tank)
Solar Panels	12 or 18 x 360 - 400 Watt
Batteries	48 x 12V/120Ah AGM, or 96 x 2V/350Ah or 490Ah Deep Cycle
Battery Configuration	48V
Power Backup	3.0 kVA 48V/240V Generator
Enclosures	1 x Double-walled insulation shelter, or air-conditioned rack with mild steel enclosures

