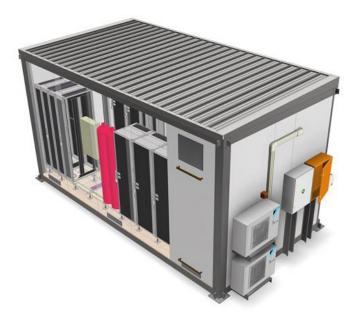# ART

Modular Communication Shelter (MCS18+)

With over 50 years of Australian manufacturing experience, ART is a trusted provider of infrastructure solutions for the telecommunications, mining, and renewable energy sectors. Known for quality, compliance, and innovation, ART delivers reliable, locally made products across diverse industries.

The Modular Communications Shelter+ (MCS+) is a fully customisable, Australian-made shelter designed for durability, flexibility, and operational efficiency. Developed from decades of engineering expertise, it suits a wide range of environmental and technical requirements and supports future scalability.

Its modular design allows for easy configuration, expansion, and on-site adaptation — reducing total cost of ownership and making it ideal for both remote and high-demand environments, on-grid or off-grid.

Constructed with a galvanised steel frame using Australian steel, the MCS+ features configurable wall materials with options for high fire resistance, varied thermal insulation, ballistic protection, and wind ratings up to region D. It maintains a clean, professional exterior while delivering robust structural performance.

Internally, the shelter includes pre-installed equipment racks and underfloor cable pathways that separate power and data to meet Australian standards. Anti-static lift-up floor tiles allow for easy maintenance, and fire detection and security features can be tailored to specific needs.

The MCS+ supports high-density battery storage and flexible power system integration. It is solar- and generator-compatible, with multiple voltage inputs and external gland plates for seamless integration. Adjustable footings allow for rapid, one-day deployment following civil works.

Each shelter undergoes factory and on-site acceptance testing, with optional integration and commissioning support, ensuring full compliance and operational readiness.

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Technical Specifications

DIMENSIONS

Floor Space	18m²
Internal Dimensions	6m (L) x 3m (W) x 3m (H)
External Dimensions	6.3m (L) x 3.3m (W) x 3.3m (H)

STRUCTURAL

Design Life	25 Years
Framework	Modular HDG Steel Frame
Corrosion Standards	C3 Standard, Optional C4, C5 & CX
Seismic	Zone 3 Standard, Zone 4 and Zone 5 Optional
Flooring	Anti-Static tiled floor
Thermal Insulation	R-Value from 2.63 up to 4.41
Ballistic Rating	Up to Class 2 (NATO)
Wind Region	Wind Region B Standard, Optional C or D
Cable Entry	5mm Aluminium Gland Plates IP66
Cable Trays	Sub-Floor (Power) & Overhead (Data)
Fibre duct	Overhead

LIGHTING

Indoor Lighting	LED Lighting
Outdoor Lighting	LED Floodlight

FIRE PROTECTION

Fire Rating	FRL and BAL ratings supplied as required by site or customer specifications.
Smoke Detectors	Smoke Detectors & Remote Warning/Alarm
VESDA	Optional
Fire Suppression	Optional

COOLING

Cooling Methods	2 x 5.0kW Split Systems (n + 1)
Cooling Distribution	Wall Mounted
Cooling Containment	Overhead Rack Cooling

MONITORING & MANAGEMENT

BMS Lithium	Integrated BMS within battery module
BMS Lead Acid	Battery Mid-Point Monitoring & Pack Voltages
Environmental Monitoring	Internal & External Temperature, Power Rack Temperature Monitoring

POWER

Input Voltage	1φ 230V or 3φ 400V
Battery System	Lithum or Lead Acid
Max Battery Racks (Lithium)	20*
Max Battery Capacity	300.8kWh
DC Power System	Eaton/Eltek/Victron
48v System Capacity	Up to 12kW
24v System Capacity	Up to 4.5kW
12v System Capacity	Up to 4.5kW
Solar Input Capacity	Up to 18kW
DC System Voltages	48V, 24V, 12V
230v Internal Distribution	Up to 7.2kW
Low Voltage Distribution Board	12/24 Pole Chassis (Optional)
Automatic Transfer Switch	3 Position ATS Mains/OFF/ Generator
Generator	Up to 30kVA
Power Distribution	48VDC A+B Feeds (Standard) 24VDC (Optional) 12VDC (Optional) 230VAC (Optional)
Max Customer Equipment Racks Front & Rear Access	10*
Max Customer Equipment Racks Front Access Only	10*
Solar Compatible	Yes
Future Expansion Ability	Yes
Airlock	Optional

SECURITY SYSTEM

Access System	Lockable Door/Swipe Card/ Key Pad
Access System Manufacturer	Gallagher/Lenel/Customer Defined
CCTV	Indoor & Outdoor (Optional)

DOORS

Entry Door	900mm (W)
Emergency Exit Door	900mm (W) (Optional)

*Dependent on application, power system sizing, rack sizing, customer clearance requirements and selected configurations.

About us

ART designs, manufactures, installs, and maintains turnkey infrastructure solutions for wind resource assessments, as well as for the broader renewables, resources and communications industries.

art-group.com.au

ART

P (02) 6672 6200
E sales@art-group.com.au