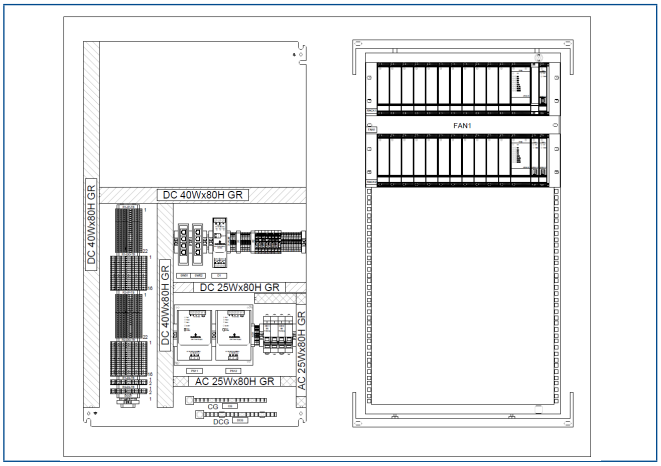
AMS 6500 ATG Enclosures

- Significantly reduces cabinet design engineering
- Fully documented drawing package



AMS 6500 ATG Enclosure for A6500-SR standard rack.

Introduction

The AMS 6500 ATG enclosures provide a pre-designed solution for AMS 6500 ATG systems to be installed in industry standard enclosures. The enclosures provide an off-the-shelf solution for faster project execution and reduced installation cost.

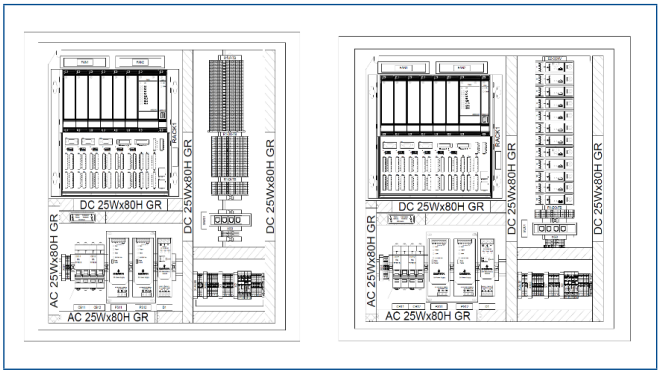
These designs seamlessly integrated into the overall hardware solution of a Machinery Protection and Prediction project.

Ready to Work When You Are

The AMS 6500 ATG enclosure offering comprises a range of pre-engineered solutions based on industry accepted designs, pre-installed with AMS 6500 ATG machinery protection system and related equipment ready to be installed in an equipment room and ready to be connected to field sensors.

The enclosures are intended for mounting areas, where the temperature and humidity are within the requirements for the electronic equipment. They come ready to receive incoming plant AC power. All the internal wiring to power distribution components and grounding conductors has been tested at the factory.

Before delivery, each cabinet undergoes a full in-house inspection, to assure it is fully operational before shipping directly to site



AMS 6500 ATG Enclosure for A6500-FR front termination rack with termination blocks or Din-Rail for AMS EZ 1000 converters.

The enclosures are designed for easy bottom cable entry and house the AMS 6500 ATG system racks, cooling fan, power supply units, network switches and optional the AMS EZ 1000 converters.

The enclosures are ordered by selecting a base enclosure model, on top of which one or more predefined options are configured to meet specific project needs.

Base enclosure models are available:

- For different enclosure size typically-Wall mount with swing frame
- For different AC power distribution needs
- A standard design dedicated to EU (Europe)

  Configurable examples: type of A6500-xR system rack (Single Relay, Redundant Relay), mix of A6500-UM and A6500-TP modules, power supply selection (5A, 10A or 20A 24VDC power units), flexibility to pre-wire outputs (Analogue and Digital)

All enclosures come with following equipment installed:

- Primary and secondary 24VDC power distribution for system rack, rack fan, network switch
- Wire ducts or wire baskets
- Grounding bars, grounding TB's, shield bars
- Emerson name plate holder and blank name plate insert
- AMS 6500 ATG based on the specific project configuration (priced separately): including A6500-xR rack, A6500-UM, A6500-TP, A6500-RC, A6500-CC, 1U rack fan

Benefits

Standardized enclosure designs. The enclosures deliver the full benefits of marshalling. These designs meet recommended installation practices of Machinery Protection System, and each is tested before shipping. The flexibility of the A6500-UM and A6500-TP modules allows for 100% utilization of channels, regardless of the I/O signal mix. Late changes can be easily accommodated with minimal re-engineering efforts.

Fast delivery. Standard cabinets have a short lead time when ordered to shipment to site.

Reduced system footprint. The A6500-UM module gives IO mix flexibility resulting in considerable reduced footprint on the type of monitoring signals.

Significant reduction in cabinet design engineering. The A6500-UM and A6500-TP module, allows vibration, temperature and process signals assigned to respective modules which helps to rationalize the I/Os to specific module and preserves I/O flexibility to handle the late changes to the system.

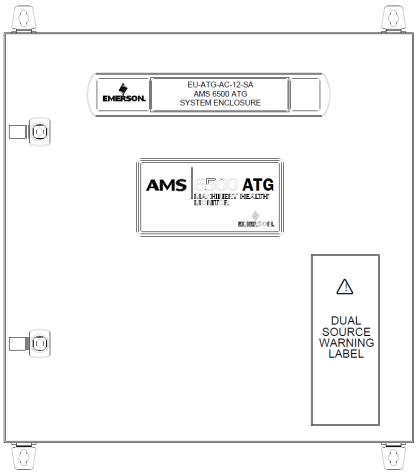
Fully documented drawing package. Each enclosure is supplied with full documentation showing internal lay-out, bill of materials, and internal wiring. Drawings can be incorporated into the project drawing package.

Ordering Information

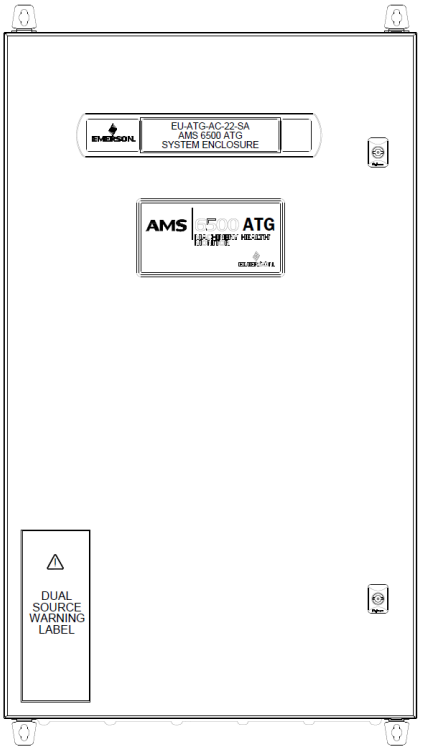
Description	Model Number								
World Area Design standards and regulations	**X**	-	X	-	X	-	X	-	X
Europe	**EU**								
Online Platform	X	-	**X**	-	X	-	X	-	X
AMS 6500 ATG			**ATG**						
Input Voltage	X	-	X	-	**X**	-	X	-	X
AC Power Distribution					**AC**				
Number of I/O´s / Racks	X	-	X	-	X	-	**X**	-	X
1x A6500-FR rack (12 I/O´s) 1x A6500-FR rack (12 I/O´s) & 12x EZ1000 1x A6500-SR rack (22 I/O´s) 2x A6500-SR rack (44 I/O´s)							**12** **12EZ** **22** **44**		
Permitted Location	X	-	X	-	X	-	X	-	**X**
Safe Area									**SA**

Enclosure Specifications

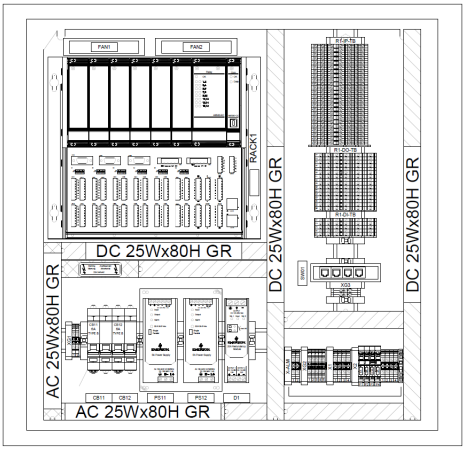
AMS 6500 ATG Enclosure Outer General Arrangement

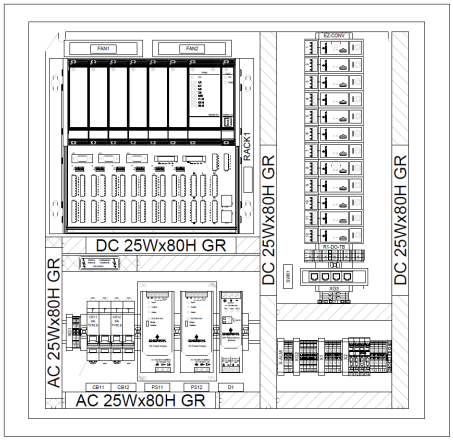


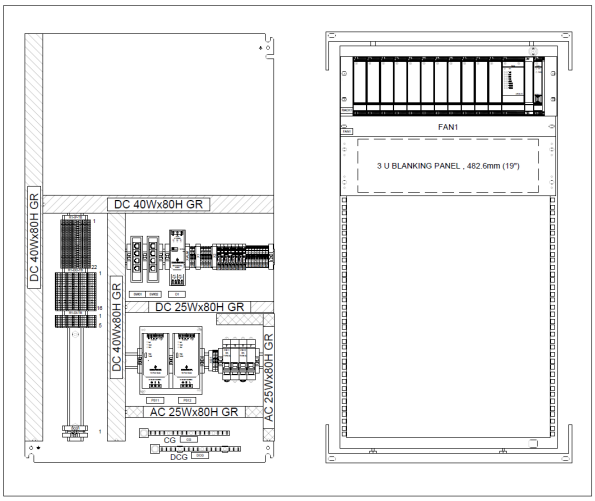
EU-ATG-AC-12-SA, EU-ATG-AC-12EZ-SA
600 (W) x 600 (H) x 300 (D) mm

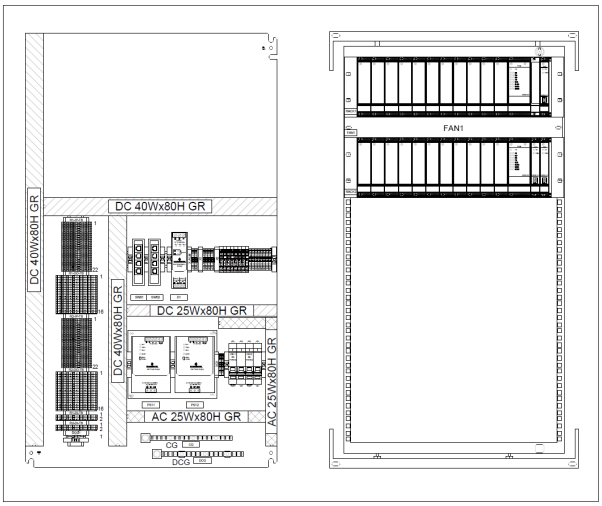


EU-ATG-AC-22-SA, EU-ATG-AC-44-SA
600 (W) x 1000 (H) x 400 (D) mm

EU-ATG-AC-12-SA	
Ambient Temperature Range	0°C to +50°C
Material	Stainless Steel SS304, 1.5 mm
Dimensions	600mm (W) x 600mm (H) x 300mm (D)
Access	Single door, left or right hand hinged
Protection Category	IP 66 TYPE 4X, 12 IK 10
Cable Entry	Bottom No gland plate Drilling cost not included. Holes to be drilled as per project requirements by end user .
Name Plate	Outside Door: laser engraved plastic
Weight	~60 kg
Power Requirements – Internal Power Distribution.	Primary and secondary 220-240VAC power to be supplied by customer. Includes full redundant (primary and secondary) 24 VDC distribution through power terminals and circuit breakers.
Control Network	Network switch: Lite managed ethernet switch, 4 x 10/100BASE-TX, TP-cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity.
Example Layout and Installed ATG-6500 Equipment 	This field enclosure has space for 12 I/O channels, including: ■ 1x A6500-FR Front Termination Rack ■ 6x A6500-UM or A6500-TP ■ 1 x A6500-CC Communication Card ■ 1x A6500-RC Relay Card
Other	Mounting plate, Halogen-Free wire ducts, external wall mounting brackets, door clamps, ground TB's, external grounding bolt, drip edge.

EU-ATG-AC-12EZ-SA	
Ambient Temperature Range	0°C to +50°C
Material	Stainless Steel SS304, 1.5 mm
Dimensions	600mm (W) x 600mm (H) x 300mm (D)
Access	Single door, left or right hand hinged
Protection Category	IP 66 TYPE 4X, 12 IK 10
Cable Entry	Bottom No gland plate Drilling cost not included. Holes to be drilled as per project requirements by end user
Name Plate	Outside Door: laser engraved plastic
Weight	~55 kg
Power Requirements – Internal Power Distribution.	Primary and secondary 220-240VAC power to be supplied by customer. Includes full redundant (primary and secondary) 24 VDC distribution through power terminals and circuit breakers.
Control Network	Network switch: Lite managed ethernet switch, 4 x 10/100BASE-TX, TP-cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity.
Example Layout and Installed ATG-6500 Equipment 	This field enclosure has space for 12 EZ1000 channels, including: ■ 1x A6500-FR Front Termination Rack ■ 6x A6500-UM or A6500-TP ■ 1 x A6500-CC Communication Card ■ 1x A6500-RC Relay Card ■ Up to 12x EZ1000 Converter
Other	Mounting plate, Halogen-Free wire ducts, external wall mounting brackets, door clamps, ground TB's, external grounding bolt, drip edge.

EU-ATG-AC-22-SA	
Ambient Temperature Range	0°C to +50°C
Material	Stainless Steel SS304, 1.5mm
Dimensions	600mm (W) x 1000mm (H) x 400mm (D)
Access	Single door, left or right hand hinged, swing frame for backplane connector access
Protection Category	IP 55 TYPE 4, 4X, 12, 13
Cable Entry	Bottom Removable gland plate Holes to be drilled as per project requirements by end user
Name Plate	Outside Door: laser engraved plastic
Weight	~110 kg
Power Requirements – Internal Power Distribution.	Primary and secondary 220-240VAC power to be supplied by customer. Includes full redundant (primary and secondary) 24 VDC distribution through power terminals and circuit breakers.
Control Network	Network switch: Lite managed ethernet switch, 4 x 10/100BASE-TX, TP-cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity
Example Layout and Installed ATG-6500 Equipment 	This field enclosure has space for 22 I/O channels, including: ■ 1x A6500-SR Standard System Rack ■ 11x A6500-UM or A6500-TP ■ 2x A6500-CC Communication Card ■ 1x A6500-RC Relay Card
Other	Mounting plate, Halogen-Free wire ducts, external wall mounting brackets, door clamps, ground bars, external grounding bolt, drip edge.

EU-ATG-AC-44-SA	
Ambient Temperature Range	0°C to +50°C
Material	Stainless Steel SS304, 1.5mm
Dimensions	600mm (W) x 1000mm (H) x 400mm (D)
Access	Single door, left or right hinged, swing frame for backplane connector access
Protection Category	IP 55 TYPE 4, 4X, 12, 13
Cable Entry	Bottom Removable gland plate Holes to be drilled as per project requirements by end user
Name Plate	Outside Door: laser engraved plastic
Weight	~125 kg
Power Requirements – Internal Power Distribution.	Primary and secondary 220-240VAC power to be supplied by customer. Includes full redundant (primary and secondary) 24 VDC distribution through power terminals and circuit breakers.
Control Network	Network switch: Lite managed ethernet switch, 4 x 10/100BASE-TX, TP-cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity
Example Layout and Installed ATG-6500 Equipment 	This field enclosure has space for 44 I/O channels, including: ■ 2x A6500-SR Standard System Rack ■ 22x A6500-UM or A6500-TP ■ 4x A6500-CC Communication Card ■ 2x A6500-RC Relay Card
Other	Mounting plate, Halogen-Free wire ducts, external wall mounting brackets, door clamps, ground bars, external grounding bolt, drip edge.

Power Calculations

It is advised to calculate power requirements for each individual enclosure with the actual I/O quantity and card type.

Certifications

- CE

Contact us:

For questions related to specific project quotations or order processing, please contact your local Emerson Sales office or your regional Emerson assembly center:

For Europe (iCenter Cluj): **Cabinets.Quotes@Emerson.com**

Project Customizations:

Please work with your local Emerson Sales office or regional Emerson assembly center to evaluate any impacts of requested customizations to cost.

Contact Us
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