SW Outdoor Cabinets

Power & Equipment outdoor solution

SW1800

Free-cooling Outdoor Cabinet

SW1800 is a temperature-controlled cabinet designed for outdoor use. Its equipment includes: cooling fans and heaters, an electronic management section, an energy station generating the - 48Vdc with a back-up provided by sealed lead batteries, lodged into a dedicated compartment at the bottom of the cabinet, isolated from the temperature-controlled compartment.

The SW1800 cabinet is purposely designed for TLC equipments. It offers at the user 1000mm/24U of useful space on ETSI N3/19" rails and a wide compartment for cable entry, harness and other accessories.

The cabinet is provided with a ventilated air gaps where the air circulation works as a "sunscreen", too. Its doors are gasketed with rubber strips, protecting the cabinet from external agents (only for equipment compartment : IP54).

Applications

SW1800 offer a thermally-controlled environment for TLC apparatus, as radio-links and wireless equipments.

Performances

- Energy efficient AC and DC power with battery backup
- Up to 2 strings of 60Ah batteries
- Quick and easy installation
- Useful space for TLC harness
- Alarmed fans with variable speed
- Pre-engineered solutions for easy and quick customization.

Product Features

Sidial design and manufactures all its outdoor cabinets with the following features:

- All made in stainless steel with RAL 7035 epoxy-powder coat. Other colours available on request.
- Accurate and reliable thermal management. All components are connectorized for easy maintenance.
- Separate compartments for batteries and apparatus
- Vandal-proof, with security locks and no external hardware. Antigraffiti painting available on request.
- Double walls with ventilated air gaps

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SW1800 Outdoor Cabinet

Specifications

Phisicals:	
Overall dimensions	height 1760mm; width 960mm; depth 500mm – no plinth
Apparatus room	height 1300mm; width 900mm; depth 440mm
Apparatus space	useful height 1060mm (24U) on ETSI N3 (21") rails
Power system space	max 200mm on ETSI N3 rails
Battery compartment	height 300mm; width 900mm; depth 440mm
Doors	Only front doors 1 for apparatus and 1 for batteries
Locks	Unified cylinder lock
Cables entry	Bottom with predrilled glands plates
Weight	180 kg (excluded power system and distribution)
Thermal Management:	
Cooling tipology	Free-cooling fans
Thermal management	Electronic control card
No. and type of fans	3 – 48VDC fans, alarmed
Dissipation capacity	140W / °C
Air input filter	Inox mesh, washable, grade G2 (EN779)
Power required	40W @ 48VDC (40 ÷ 58V)
Heating	Fan cooled resistors, alarmed
Power required	350W @ 230V, 50/60Hz
Environmental :	
Operating temperature	- 30 ÷ 50 °C (upper value may be limited by apparatus)
IP protection grade	Apparatus room : IP54 – Battery room : IP44
IK protection grade	IK09
DC power system	
Multiple AC and DC distribution configurations and power supplies available on request	

Optionals & accessories

p/n	Description	Function
SW1020	Additional plinth	For horizontal input cables
SW1021	Additional support	For heavy apparatus
SW1600	Isolation transformer	5kV isolation transformer
SW1030	Strip holder	For attestation strip cables

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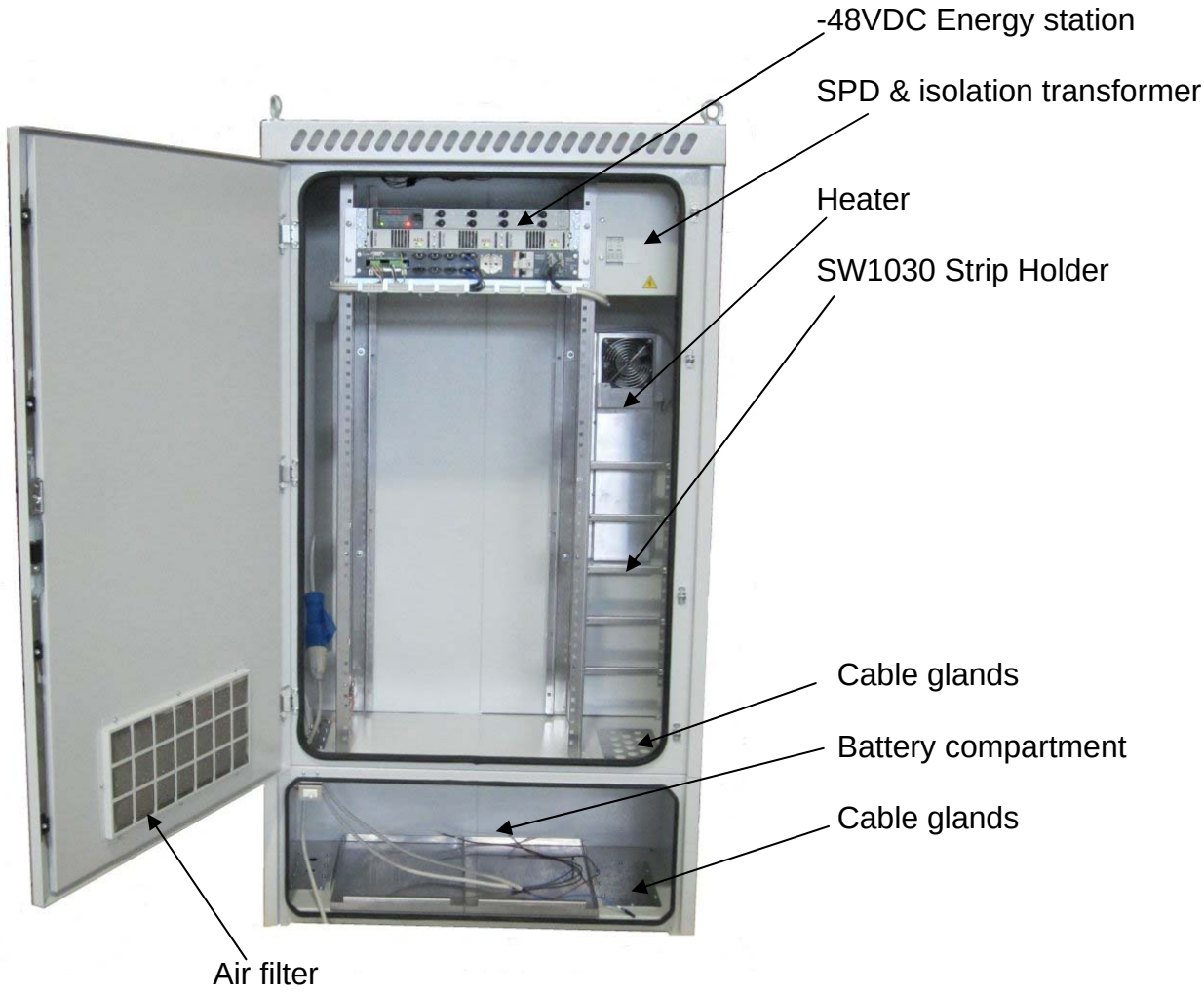
Example of internal arrangement



Reference standards

EN 60950 "Safety of information technology equipments", (2007-02).
EN61439-1"Low-voltage switchgear and controlgear assemblies. Part 1: General rules", (2010-01).
ETS 300 019-1-4 "Environmental conditions and environmental tests for telecommunications equipment. Classification of environmental conditions. Stationary use at non-weather protected locations.", V2.1.2 (2003-04)
ETS 300 019-1-2 "Environmental conditions and environmental tests for telecommunications equipment. Classification of environmental conditions. Transportation.", V2.1.4 (2003-04)
ETS 300 019-1-1 "Environmental conditions and environmental tests for telecommunications equipment.: Classification of environmental conditions. Storage.", V2.1.4 (2003-04).
RoHS 2 compliant

NOTE: for continual product enhancement the specifications may change without notice.

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