

ESOA300-HAV series

Outdoor cabinet



Descriptions

The Delta outdoor cabinet is the choice from the tropics to the arctics when space is scarce or site density needs to be increase cost-effectively.

The Delta outdoor series offers several size options, ensuring right dimensions for telecom equipment. A flexible configuration is the way to tailor solutions for your demand, and our outdoor cabinets offer and option to build the whole base station inside. Wall options are with multi- or single-layer, and mulit lock mechanism completes the protection of installed equipment.

Advanced thermal cooling enables remarkable savings both in capital and operational expenditures.

Main features

Resistant outdoor enclosure made of aluminum IP 55 protection class.

Single (common) equipment compartment hybrid cooling FAN cooling system – air ventilation (AV) and air filter modular structure and air conditioner of internal equipment to meet specific customer requirements.

Option for enhanced monitoring and controlling .

Any Delta system built-in; DC or AC, battery backup Multilayer wall design.

Bottom cable entry with flexible configuration of cable glands.

Applications

Network base stations

Wireless applications

Fixed line application, data communications



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Technical specifications

1. Cabinet structure

1.1	Dimension	Max. H2060 x W800 x D800 mm (overall with plinth, without external, cooling units)
1.2	Construction	IP55 double layers high strength AL5 series aluminum cabinet
1.3	Materials: - Cabinet outer skin - Cabinet inner skin - Internal frames - Plinth - Gasket - Thermal insulation	2mm aluminum steel with painting galvanized steel (SGLCC) 3mm aluminum Continues Form-in-Place (FIP) gasket 20 mm EPS
1.4	Internal rack dimension - Equipment space - Monitoring system	Top: 19" or 21" x 15U Bottom: 19" or 21" x 15U 19" or 21" x 1U
1.5	Door locking	4 points Key and inserts – configurable door stopper
1.6	Lifting Ears	4 hangers under roof cover
1.7	Plinth	Standard (150 mm height) with 22x snap plugs (EPDM material)
1.8	Ground bar	Telecom equipment ground bar x 1 Plinth ground bar x 1
1.9	PE earthing stud	M8 2 holes lock, pitch 25.4mm (in plinth rear left side)
1.1	Cable Entry Bottom access Cabinet floor	Left side: 3xPG9, 7xPG13.5, 4xPG36 Right side: 2xPG9, 5x PG13.5, 2xPG16, 6xPG21, 2xPG29
1.10	Weight	Approx. 170Kg (W/O rectifier, external, cooling unit)
1.11	Finish	Polyester Powder Paint, RAL7035
1.12	Standard accessories	Adjustable slid equip. supporter x 3 10x alarm connection Krone Open door sensor Service light 1W / 48V Box for document / laptop tray Umbrella holder 8 x fiber brackets

2. Power system

2.1	Dimension	H5U x W21" x D334mm
2.2	Construction	Power system with flat sliding mechanism, 6 rectifier slots
2.3	Weight	Approx. 27Kg (W/O rectifier)

2.4	Operating temperature	-40 to 65°C
2.5	AC I/P - Normal - Range	3P4W+PE, 230/400V _{RMS} , 26.2A _{RMS} / phase 88~300 V _{RMS} , 45~66Hz
2.6	DC O/P - Normal - Range - Max.	54Vdc, 17.4KW 42~58Vdc 300A O/P, 250A for load (max.)
2.7	DC PDU-Breaker	NPL1: 6x 25A NPL2: 6x 25A PL: 2x 40A, 6x 16A, 1x 16A (Aircon, Fan & internal devices) Battery: 1x 250A
2.8	DC SPD	class C 40KA/75Vdc, one pole (Phoenix)
2.9	LVD	250A LVBD x 1 200A LVLD x 2 (NPL1, NPL2)
2.10	Current measurement	Total battery current Total NPL load current (NPL1+NPL2) Total PL load current
2.11	Controller	Orion ,display, with menu structure Keypads, status LEDs
2.12	Measurement function	4* battery middle point (Voltage measure) TA/TE temperature sensor (IC type)
2.12	Controller interface	WEB interface SNMP protocol RS485 (4-wire, 2-wire), Modbus RTU V1, V2
2.13	Dry contact (N.O)	Standard x 7: 1 for DG ON/OFF. 5 for system alarm, 1 for door open alarm Option for extension: 10 by IOM alarm module

3. Thermal system

3.1	DC Air-Con	1.6KW DC Air-Con cooling
3.1.1	DC I/P -Normal -Range	54Vdc, 925W 42~58Vdc
3.1.2	Cooling capacity (L35/35) (L35/40)	1333W 1200W
3.2	Fan cooling (Air Ventilation)	302 CFM axial fan x 2
3.2.1	DC I/P -Normal -Range	54Vdc, 48W 36~60Vdc
3.2.2	Cooling capacity	250W/K
3.2.3	Air Filters - Class - Dimension	F6 (EN779); Wet/Dry cleanable 300x500x46mm

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- Media area	1.14m ² (each)
- Dust holding capacity	60%~80% holding rate (by 0.4 μ m dust)
- Q'ty	1 pcs

4. Environment

4.1	Operating temperature	-10 to 55°C
4.2	Protection class	IP 55 (EN 60529); for cabinet
4.3	Noise (sound pressure @1m)	Max. 65dB(A) for fan cooling
4.4	Humidity	95 % max, non cond.
4.5	Safety	IEC/EN60950
4.6	EMC	EN 300 386 Conduction: class A Radiation: class B
4.7	Earthquake (NEBS GR-63 Core)	Standard: Zone 2 Optional: Zone 4

5. AC I/P PDU

5.1	Dimension	H310 x W180 x D58mm (located at right side wall & next to power shelf)
5.2	AC I/P breaker	1P 50A x 3
5.3	AC Input terminal	3P4W+PE (3 phase), or 1P2W+PE (single phase)
5.4	AC SPD	Standard: class C 40KA, 3+1 (Phoenix) Optional: class B+C 50KA, 3+1 (Phoenix)
5.5	AC service socket	Universal service socket, with 1P 16A breaker

6. DC O/P PDU

6.1	21" 1U PDU-1	6x 100A, 4x 25A
6.2	21" 1U PDU-2	12x 6A load breaker, M/N: 5610023745

7. Optional

7.1	Rectifier	DPR2900, 96.2% efficiency, M/N: ESR-48/56B F DPR2900, 97% efficiency, M/N: ESR-48/56D A
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subject to change without notice

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