

# ESOA300-HAF Hybrid Series

## Outdoor cabinet



### Descriptions

The Delta 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 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 cabinets offer an option to build the whole base station inside. Wall options are with multi- or single-layer, and multi 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 FAN cooling system – air ventilation (AV) and air filter modular structure of internal equipment to meet specific customer requirements.

Option for enhanced monitoring and controlling .

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 D750 mm
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	Top: 19" or 21" x 17U Bottom: 19" or 21" x 16U
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	Accessories	Including: DC cable: #2 AWG (33mm <sup>2</sup> ) x 100M PV cable: #10 AWG (5mm <sup>2</sup> ) x 200M PV cable connector: 10 sets Cable lug for DC cable: 10 pcs

#### 2. Power system

2.1	Dimension	H7U x W21" x D334mm
2.2	Construction	Power system with flat sliding mechanism, 6 x rectifier slots + 6 x PV charger slots
2.3	Weight	Approx.35Kg (W/O rectifier)
2.4	Operating temperature	0 to 50°C
2.5	AC I/P - Normal - Range	3P4W+PE, 230/400V <sub>RMS</sub> , 26.2A <sub>RMS</sub> / phase 88~300 V <sub>RMS</sub> , 45~66Hz
2.6	DC O/P - Normal - Range - Max.	54Vdc, 17.4KW from rectifier; 54Vdc 13.2KW from PV charger 42~58Vdc 300A O/P, 250A for load (max.)

2.7	DC PDU-Breaker	NPL breaker: 32A X 3, 16A X 1 PL breaker: 40A X 2 Battery: 2x 250A
2.8	DC SPD	Yes
2.9	LVDS	1 for battery; 1 for NPL
2.10	Current measurement	Total battery current Total load current
2.11	Controller	Orion ,display, with menu structure Keypads, status LEDs
2.12	Controller interface	WEB interface SNMP protocol
2.13	Dry contact	6

#### 3. Thermal system

3.1	Fan cooling (Air Ventilation)	302 CFM axial fan x 2
3.2	DC I/P -Normal -Range	54Vdc, 48W 36~60Vdc
3.3	Cooling capacity	250W/K
3.4	Air Filters - Class - Dimension - Media area - Dust holding capacity - Q'ty	F6 (EN779); Wet/Dry cleanable 300x500x46mm 1.14m <sup>2</sup> (each) 60%~80% holding rate (by 0.4 μm dust) 2 pcs

#### 4. Environment

4.1	Operating temperature	0 to 50°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. Optional

5.1	Rectifier	DPR2900, 96.2% efficiency, M/N: ESR-48/56B F c
5.2	PV Charger	PVC 2200B-48, 96% efficiency, M/N: DCS-48/45A A

subject to change without notice

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