

# Power

## CAPTIN 850FA

Site energy and management solution



Captin 850FA Integrated 4000W System

- › Full front access design for space restricted enclosures
- › Integrated site management and power feeding
- › Up to 4000W output power
- › 6 protected distribution output
- › Very easy integration in TNM systems
- › Full open interface, ETSI ES 202 336 compliant
- › Battery backup connection and management

The CAPTIN is a total solution designed specifically for use in access network outdoor cabinets and shelters, integrating power supply and management, environmental management, access control and more. Designed in close cooperation with market leading access network operators, it combines redundant power back-up with almost unlimited capabilities for monitoring and control of infrastructure all in a single chassis. Remote communication over IP is provided without the need for any proprietary application or software.

The integration and optimization of site, security and energy management functions into a single power system brings significant savings in terms of module optimization and cabinet cabling. Furthermore, the compact size of the system (266mm deep x 19" ETSI wide x 2U (88mm) high) allows a reduction of overall cabinet size when compared to earlier solutions. The modular construction enables progressive investment by installing optional modules in the field at any time.

Reducing the OPEX of our customers is a major objective in the design of Alpha Technologies solutions. Remote monitoring and control of all variables provides advanced knowledge of system status reducing the occurrences of unnecessary site visits. The capabilities of the CAPTIN system far exceed this, supporting additional functions such as statistical data recording and analysis, energy consumption reduction and automatic testing routines - all aimed at reducing network operating expenses.

The integral control module features SNMP and XML standard open architecture. IP based services enable fast and easy transmission of information directly to the appropriate people (security, power, access, etc) as required by the operational organisation of the network.

## Captin 850FA 48V Site Energy and Management Solutions

### Main configurations:

- ACE094STxx48NFA-1A: Power system with monitoring and control unit
- ANIS094STxx48NFA-1A: Power system with environment and energy management unit

### Electrical

Input Voltage: .....207 to 253VAC

Input Frequency: .....47 to 63Hz

Input Current (per module):...5.8A (180Vac)

Efficiency:.....91% typical

#### Power output\*

Per module: .....850W/1000W (CAR0948TN/CAR1048TN)

Maximum: .....3400W/4000W (CAR0948TN/CAR1048TN)

\* Constant output power

#### Current output:

Per module:.....18.5A@ -54Vdc (CAR1048TN)

15.7A @ -54Vdc (CAR0948TN)

### Mechanical

#### Dimensions:

mm: .....87H (2U) x 440W x 266D

inches:.....3.5H x 17.3W x 10.5D

Mounting:.....19" or ETSI

#### Weight:

Shelf:.....6.87kg (15.15lb)

Rectifier: .....1.16kg (2.56lb)

### Connections

#### Load:

4 Positions: .....Spring cage terminal block (4 to 6 mm<sup>2</sup>)

2 Positions: .....Spring cage terminal block (0.75 to 1 mm<sup>2</sup>)

12Vdc auxiliary output:.....Female Jack connector (5.7 x 2.5)

Battery:.....Anderson SB120 connector

AC Input: .....2 x 2.5mm<sup>2</sup> (2m single cord)

Alarms: .....Female Sub D15

CAN communication (2):...Modular RJ45 connector (8P8C)

Site Management\*:.....See specifications sheet

\* Optional

### Environmental

#### Temperature:

Standard:.....-20 to 55°C (-4 to 131°F)

Extended\*:.....-40 to 70°C (-40 to 158°F)

\* de-rated output power

Storage: .....-40 to 85°C (-40 to 185°F)

#### Humidity:

Operating.....20 to 80% RH non-condensing

Storage: .....10 to 95% RH non-condensing

Elevation:.....Up to 2000m (6562ft)

Cooling: .....Fan cooled (front to rear)

### Related Components

#### Rectifiers:

CAR0948TN: .....CAR 850W 48Vdc rectifier

CAR1048TN:.....CAR 1000W 48Vdc rectifier

#### Supervisory:

MCU0949M4: .....1U high controller with LCD display

MCU0948LP:.....½U high controller (0.5U high)

SAM0948:.....Site and Access Management card

Comp@s: .....Advanced embedded monitoring software

#### Accessories

9411 040 55001: .....Blank plate for rectifier slot

5304 500 00761:.....RFID card reader

5304 500 00781:.....Water detection sensor

5304 500 00791:.....Additional temperature sensor

5304 500 00801: .....LAN cable

5304 500 00811:.....12V power cable for auxiliary output

5304 500 00911:.....Battery connection kit (cable and connector)

5304 500 00931: .....Signals connection kit for SAM0948

### Standards

Safety: .....CE marked

EN60950

IEC 68-2-27

Environment: .....RoHS compliant

EMC: .....see specifications



Rear view: Captin 850FA Integrated 4000W System