

Power

CAPTIN 300FAR

Site energy and management solution



Captin 300FAR Integrated System

- › High efficiency, 300W rectifier based solution
- › Full front access 1RU shelf
- › Wide AC input range
- › Integrated distribution
- › Battery backup connections and management
- › Multiple monitoring options
- › Optional A + B feed (Dual AC input)

The CAPTIN 300FAR series is a highly modular solution based on the high efficient rectifier Cordex HP 48-300W, designed to power small loads at operating efficiency of 94%, a world class performance for 300W rectifiers. Designed to support uninterrupted operations 24/7, such efficiency brings significant savings in thermal management and operating expenses and reduces carbon footprint.

1RU high and 250mm deep, the system can accommodate up to three rectifiers, an embedded output distribution (standard or custom configured) including a managed battery connection, an energy controller and a site and access management module. All elements are modular to optimize your solution and meet your needs and budget.

Like all CAPTIN series solutions from Alpha Technologies, the CAPTIN 300FAR offers the opportunity to monitor and control an almost infinite number of operating parameters over TCP/IP. The solution is based on Comp@s, a fully open platform compliant with the ETSI standards, and supports XML, SNMP and Web based services. It is very easy to integrate in network applications and facilitates large savings in maintenance and intervention costs. For those looking for the lowest initial investment, the basic monitoring will report all major alarms on configurable standard dry loops.

Enjoy a fully hot pluggable modular solution, configured and fully tested to your needs, that is of course easily scalable at any time. Standard systems are delivered with one input connection; A+B feed configuration is optional.

The system offers full front access for any module, battery and DC loads connection or servicing and can be quickly installed and connected.

Captin 300FAR 48V Site Energy and Management Solution

Part Number: ECOS033STxx48NFAR-1x: Power system with monitoring and control unit

Electrical

Input Voltage:90 to 265VAC

Input Frequency:47 to 63Hz

Input Current
(per module):..... 1.40A @ 230Vac
 3A @ 110Vac
 3.7A @ 90Vac

Efficiency:.....93.8% typical @ 230Vac

Output voltage:.....43 to 58Vdc

Power output (Constant output power):
(per module):.....300W
(maximum):..... 1200W

Current output
(per module):.....5.6A @ -54Vdc
 6.7A @ -45Vdc
(maximum):.....32A

Mechanical

Dimensions:
mm:.....43H (1U) x 440W x 250D
inches:..... 1.75H x 17.3W x 9.45D

Mounting:..... 19" or ETSI

Weight:
Shelf:.....2kg (4.41lb)
Rectifier:0.57kg (1.23lb)

Connections

Load distribution (GMT fuses):
4 Positions:Spring cage terminal block (0.2 to 2.5mm²)

Battery (breaker):Female 2 poles connector (0.2 to 4mm²)

AC Input:
Standard:IEC C16 plug connector
Optional:3 x 2.5mm² pigtail (2m single cord)

Alarms:
Rear side:Female 3 x 8 poles connectors
Standard I/O card*:Female Sub D26
* Optional

Standard I/O card*:see specifications sheet
* Optional

Environmental

Temperature:
Standard:.....-20 to 70°C (-4 to 158°F)
Extended*:.....-40 to 70°C (-40 to 158°F)
* degraded mode between -40 and -20°C
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 3000m (9842ft)

Cooling:Fan cooled (front to rear)

Related Components

Rectifiers:
CXRF 48-300W: Cordex 300W 48Vdc rectifier

Supervisory:
MCU0348M4: 1U high controller with LCD display
MCU0348LP:½U high controller
Captin300 ADIO:Standard I/O card
Comp@s:Advanced embedded monitoring software

Distribution:
DIS300: Standard outputs distribution

Accessories:
9411 040 35001:Blank plate for rectifier slot
5304 500 00791: Temperature sensor (3m)
5304 500 01141: Temperature sensor (1.5m)
5304 500 00921: Temperature sensor with connector (1.5m)
5304 500 01191: 1A GMT fuses kit (100 pcs.)
5304 500 01201:2A GMT fuses kit (100 pcs.)
5304 500 01211:5A GMT fuses kit (100 pcs.)
5304 500 01221: 10A GMT fuses kit (100 pcs.)
4004 003 88361: Battery mating connector
4004 003 91141:Mating connector for recitifier front DC output

Standards

Safety: CE marked
 EN60950

Environment:RoHS compliant
 IEC 60068-2-27
 ETSI EN 300 019-1-3 class 3.4

EMC: ETSI EN 300386



Rear view: Captin 300FAR Integrated System