

# CXPS-E101



## STANDARD 48VDC POWER SYSTEM

- › Integrated 48V system packages in 100A or 225A configurations
- › Ultra compact, high density design utilizing standard plug-in circuit breakers
- › High efficiency design for reduced operating expenses
- › High temperature rated, fan-cooled design for harsh outdoor installations
- › Wide range AC input and IEC line cords for multiple AC services

**100A System Configuration P/N: 0540569-401**  
**225A System Configuration P/N: 0540570-401**

### ELECTRICAL

#### Input:

**Voltage:**.....176 to 312Vac (nominal)  
 90 to 176Vac (de-rated O/P power)

**Current:**.....7.5A max (176 to 300Vac) per module  
 6.0A max (90 to 176Vac) per module

**Frequency:**.....45 to 66Hz

**Efficiency:**.....>93% (50-100% load @ nominal voltage)

**Power Factor:**.....>.99

#### Output:

##### Current:

- CXPS-E101 100A  
 Capacity System: ..... 100A max @ 48Vdc (nominal I/P)  
 50A max @ 48Vdc (115Vac input)
- CXPS-E101 225A  
 Capacity System: ..... 225A max @ 48Vdc (nominal I/P)  
 112.5A max @ 48Vdc (115Vac input)
- Rectifier: .....25A max @ 48Vdc (nominal I/P)  
 12.5A max @ 48Vdc (115Vac)  
 (subject to de-rating below 110Vac)

##### Power:

- CXPS-E101 100A  
 Capacity System: ..... 4800W max @ 48Vdc (nominal input)  
 2400W max @ 48Vdc (115Vac input)
- CXPS-E101 225A  
 Capacity System: ..... 10800W max @ 48Vdc (nominal input)  
 5400W max @ 48Vdc (115Vac input)
- Rectifier: .....1200W max @ nominal I/P  
 600W @ 115Vac  
 (subject to de-rating below 110Vac)

### FEATURES

**CXPS-E101 100A:**.....Up to 4x 48V-1.2kW rectifier positions

**CXPS-E101 225A:**.....Up to 9x 48V-1.2kW rectifier positions

**Distribution:** .....10x load breaker positions  
 (AM breaker, mid-trip plug-in style)  
 2x battery breaker positions  
 (AM breaker, series-trip plug-in style)  
 225A Low voltage disconnect  
 200A Battery shunt

**Controller:** ..... CXCM1 HP Modular controller (included)

### MECHANICAL

#### CXPS-E101 100A Capacity System Dimensions:

mm:.....90H x 438W x 381D  
 inches: .....3.5H x 17.24W x 15D

#### Weight:

System: ..... 18.3kg (40.4lbs)  
 Rectifier: .....1.2kg (2.7lbs) each

#### CXPS-E101 225A Capacity System Dimensions:

mm:.....133H x 438W x 381D  
 inches: .....5.25H x 17.24W x 15D

#### Weight:

System: .....21.3kg (47lbs)  
 Rectifier: .....1.2kg (2.7lbs) each

**Mounting:**..... 19/23" universal mount (center or flush)

#### Connections:

Load breaker: ..... 10x sets, 1/4"-20 studs on 5/8" centers  
 Battery breaker: .....2x sets, 1/4"-20 studs on 5/8" centers  
 Return bar: ..... 12x sets, 10-32 studs on 5/8" centers  
 Alarm: .....Screw terminal 1.31mm<sup>2</sup> to 0.128mm<sup>2</sup>  
 (#16 to #26 AWG)

Access: .....Front access for operation and maintenance

### ENVIRONMENTAL

**Temperature:**.....-40 to 65°C (-40 to 149°F)

-40 to 75°C (-40 to 167°F) de-rated output

**Humidity:** ..... 0 to 95% RH non-condensing

**Elevation:** .....-500 to 2800m; to 4000m with temperature  
 de-rated to 40°C (-1640ft to 9186ft; to  
 13124ft with temperature de-rated to 104°F) with  
 de-rated output

### RELATED COMPONENTS

5-15P (120V) Line Cord, 2.5M: P/N 877-690-19

Universal Line Cord, Flying leads, 3.5M: P/N 877-790-19

Temperature sensor assembly 12ft, 1/4" lug: P/N 747-095-20-072

Temperature sensor assembly 12ft, 3/8" lug: P/N 747-095-20-075

Rectifier blank Plate: P/N 747-622-20-000

Cordex CXRF 48-1.2kW Rectifier Module: See page 62

Cordex CXCM1 HP: See page 108