



an EnerSys® company

# CPH 144

## Central Power Hub



- NEMA Type 3R outdoor cabinet with heat exchanger for improved energy efficiency and reduced maintenance costs
- Provides up to 144  $\pm 190$ Vdc line powering channels to power multiple devices and sites
- Wide AC input range (90 to 300Vac) for worldwide deployment
- High efficiency for reduced OPEX and carbon footprint
- Gas protector module and protector block panel provided for output surge protection for all channels

**The Central Power Hub (CPH) is a NEMA Type 3R rated enclosure system designed to distribute up to 144 channels of  $\pm 190$ Vdc over OSP twisted copper pair cabling following the RFT-V standards. Applications include powering DSLAMs, security and surveillance remote nodes, ITS equipment, and wireless infrastructures.**

The CPH-144 cabinet is installed in locations where 90 to 300Vac utility power is available, to power multiple remote communication equipment located thousands of feet away using energized twisted copper pair cabling. The CPH-144 cabinet enables operators to reduce installation and operating expenses, and provides flexibility related to site selection for the remote equipment. The system may

include options such as 48Vdc strings of batteries, load center with main disconnect, generator inlet, TVSS, and heater.

The CPH-144 cabinet incorporates a full range of standard features, including primary surge protection, current limiting, and individual ground fault interrupt for each circuit. Emphasis is placed on recognizing a fault condition and shutting down the circuit as quickly as possible to ensure the highest level of safety. Compliance with Telcordia GR-1089-CORE, Class A2 enables craftspeople to work on the equipment while powered which significantly reduces administrative overheads and labelling requirements, associated with high voltage wiring. Monitoring and control of the remote equipment is provided through the Cordex® CXC HP System Controller allowing the user to manage all aspects of their energy system.

# CPH144 Central Power Hub Enclosure

Consult your Alpha representative for P/N configurations

| Electrical            |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input voltage:        | Nominal: 187 to 277Vac<br>Operating: 187 to 310Vac<br>Extended: 90 to 187Vac (de-rated power)                                                                                 |
| Input frequency:      | 45.0Hz to 66.0Hz                                                                                                                                                              |
| Power factor:         | >98% (50 to 100% load)                                                                                                                                                        |
| THD:                  | <8% (50 to 100% load)                                                                                                                                                         |
| Efficiency:           | 90%                                                                                                                                                                           |
| Output voltage:       | ±190Vdc                                                                                                                                                                       |
| Output power:         | 13,824W max (96W per channel)                                                                                                                                                 |
| Acoustic noise:       | <65dBA                                                                                                                                                                        |
| Features              |                                                                                                                                                                               |
| Protection:           | <ul style="list-style-type: none"><li>• Pad-lockable door handles</li><li>• 40kA surge suppression</li><li>• 50-pair protector panel for gas discharge tube modules</li></ul> |
| Mechanical            |                                                                                                                                                                               |
| Dimensions H x W x D: | 1041 mm × 686 mm × 559 mm<br>(41 in. × 27 in. × 22 in.)                                                                                                                       |
| Weight:               | 193 kg (425 lbs.)                                                                                                                                                             |
| Mounting:             | <ul style="list-style-type: none"><li>• Ground</li><li>• Pole</li></ul>                                                                                                       |
| Cooling:              | 50W/°C heat exchanger                                                                                                                                                         |

| Environmental      |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Temperature:       | Operating: -40 to 46°C (-40 to 115°F);<br>Storage: -40 to 85°C (-40 to 185°F)                                           |
| Relative humidity: | 5 to 95% non-condensing                                                                                                 |
| Elevation:         | -100 to 3,000 m (-330 to 9840 ft)                                                                                       |
| Agency compliance  |                                                                                                                         |
| Safety:            | <ul style="list-style-type: none"><li>• CSA/UL 60950-1-07</li><li>• CSA/UL 60950-21</li><li>• CSA/UL 60950-22</li></ul> |



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