

CXPS-E3

ORDERING GUIDE



Your Power Solutions Partner

CXPS-E3

Ordering Guide



Your Power Solutions Partner



- Integrated -48V, 400A power system with front access distribution
- Industry leading power system density
- 400A, 26 distribution positions in 5RU
- Advanced CXC-HP controller with touch screen display for full local control
- High temperature rated design for harsh outdoor applications
- Wide range AC input for flexible worldwide deployment

Alpha's E3 uses high-density rectifiers, a front access distribution center and the advanced CXC HP controller.

The E3 is the ideal solution for small to medium-sized 48Vdc applications, providing up to 400 Amps of output current. With universal 19/23" mounting, high temperature operation and high power density, it is the perfect solution for a wide variety of installation scenarios including those in harsh, outdoor environments. The distribution center provides up to 26 load breaker positions, integrated shunt and LVD. All distribution connections and controller I/O contacts are front accessible.

The CXC-HP controller includes a touch screen GUI for simple and convenient local setup. A built-in web server provides alternate setup via local or remote IP access, using a standard internet browser. The E3 can be easily integrated into customer-provided relay racks or enclosures, or can be ordered factory installed into various Alpha relay rack configurations, including systems with pre-wired battery trays.

S.No	Part Number	System Description
1	0916022-100	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers
2	0916022-200	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 16 Load Breakers, 5 Battery Breakers, e/w LVBD
3	0916022-600	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 16 Load Breakers, 5 Battery Breakers
4	0916142-300	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 26 Load Breakers
5	0916142-400	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers, e/w LVBD
6	0916142-500	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers

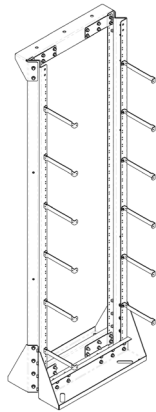


Your Power Solutions Partner

HOW TO BUILD AN E3 POWER SYSTEM

Step 1: Pick Seismic Rack (Integrated in Systems)

Part Number	Seismic Rack Option
0300163-001	23", 7'0" Height, 2500lb, Welded Seismic Rack
0300063-003	23", 3'6" Height, 500lb, Bolted Seismic Rack
0300047-001	23", 7'0" Height, 1500lb, Bolted Seismic Rack
0300047-002	23", 7'0" Height, 1000lb, Bolted Seismic Rack
0300047-003	23", 7'0" Height, 500lb, Bolted Seismic Rack
0300064-001	23", 7'6" Height, 1500lb, Bolted Seismic Rack
0300065-001	23", 8'0" Height, 1500lb, Bolted Seismic Rack
0300066-001	23", 9'0" Height, 1500lb, Bolted Seismic Rack
0300062-001	19", 7'0" Height, 1500lb, Bolted Seismic Rack
0300062-002	19", 7'0" Height, 1000lb, Bolted Seismic Rack
0300062-003	19", 7'0" Height, 500lb, Bolted Seismic Rack

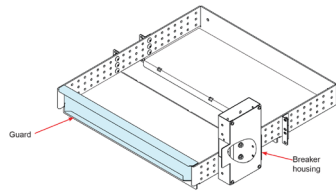
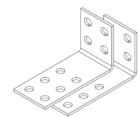


Step 2: Pick E3 Power System (Integrated in Systems)

Part Number	Power System Option
0250020-001	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers
0250020-002	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 16 Load Breakers, 5 Battery Breakers, e/w LVBD
0250020-003	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 16 Load Breakers, 5 Battery Breakers
0250021-001	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 26 Load Breakers
0250021-002	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers, e/w LVBD
0250021-003	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers

Step 3: Pick Battery Trays (Integrated in Systems)

Part Number	System Integration Items
0300061-003 (0300061-503)	23", Seismic Battery Tray (23", Seismic Battery Tray, Field Service Kit)
0300077-002	19", Seismic Battery Tray
0380128-001 (0380128-501)	19/23", Breaker Housing Kit (19/23", Breaker Housing Kit, Field Service Kit)
0370314-001	23", Battery Cable Landing Bus Bar Kit
0370388-001	19", Battery Cable Landing Bus Bar Kit

Alpha Technologies Ltd.

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233
 United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

Alpha Technologies reserves the right to make changes to the products and information contained in this document without notice.
 Copyright © 2016 Alpha Technologies. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.
 member of The Alpha Group™ is a trademark of Alpha Technologies.

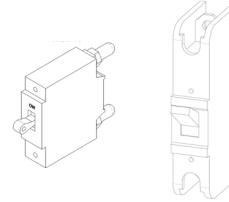
For more information visit www.alpha.ca

#0470209-00 Rev C (06/2016)

member of The  Group™

Step 4: Pick Battery Breakers (Integrated in Systems)

Part Number	Plug-in Battery Breakers
470-347-10	CB, 1P, 100A, 80Vdc, 5/16" Bullet, Series-trip
4700153*	CB, 2P, 200A, 80Vdc, 5/16" Bullet, Series-trip
4700235**	CB, 3P, 300A 80Vdc, 5/16" Bullet, Series-trip
Part Number	Bolt-in Battery Breakers
470-054-10	CB, 1P, 100A, 65Vdc, 1/4-20 Bolt-In, Series-trip
470-228-10	CB, 1P, 250A, 7/16" Bolt-In

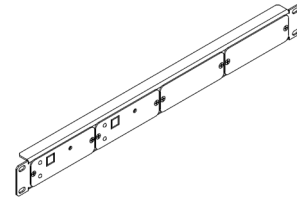


* 2 Pole Breaker Adaptor Kit is required

** 3 Pole Breaker Adaptor Kit is required

Step 5: Pick Mid-Point Monitoring System (Integrated in Systems)

Part Number	System Integration Items
018-546-20-150	23", 1RU, SD08 BFDM Shelf, 4x Blank Modules
018-546-20-157	19", 1RU, SD08 BFDM Shelf, 3x Blank Modules
747-109-20-140	SD08 Mid-Point Battery Monitor Module



Step 6: Pick Temperature Probes (Integrated in Systems)

Part Number	Temperature Probes
747-028-20-071	Temp Snsr, 1/4" Lug, 6ft Cable Assy
747-028-20-072	Temp Snsr, 1/4" Lug, 12ft Cable Assy
747-028-20-073	Temp Snsr, 1/4" Lug, 24ft Cable Assy
747-028-20-080	Temp Snsr, 1/4" Lug, 50ft Cable Assy
747-028-20-081	Temp Snsr, 1/4" Lug, 100ft, Cable Assy

Part Number	Temperature Probes
747-082-20-071	Temp Snsr, 3/8" Lug, 6ft Cable, Assy
747-082-20-072	Temp Snsr, 3/8" Lug, 12ft Cable, Assy
747-082-20-073	Temp Snsr, 3/8" Lug, 24ft Cable, Assy
747-082-20-080	Temp Snsr, 3/8" Lug, 50ft Cable, Assy
747-082-20-081	Temp Snsr, 3/8" Lug, 100ft Cable, Assy

Alpha Technologies Ltd.

For more information visit www.alpha.ca

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233

United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

#0470209-00 Rev C (06/2016)

Alpha Technologies reserves the right to make changes to the products and information contained in this document without notice.

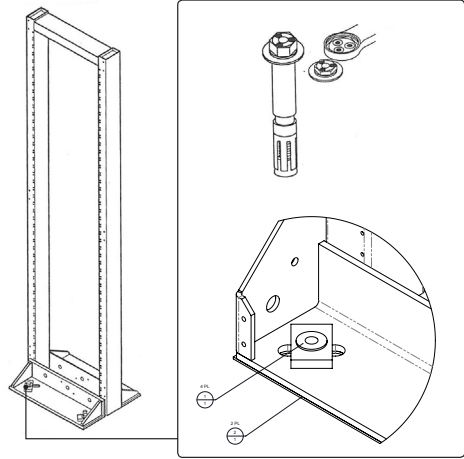
Copyright © 2016 Alpha Technologies. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.

member of The Alpha Group™ is a trademark of Alpha Technologies.

member of The  Group™

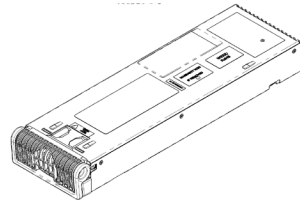
Step 7: Pick Seismic Rack Accessories (Shipped Loose)

Part Number	Seismic Rack Accessories
0380042-021	Seismic Anchor and Washer Kit
0380063-001	23", Bolted Seismic Rack Insulation Pad and Bushing Kit
0380108-001	19", Bolted Seismic Rack Insulation Pad and Bushing Kit
0380195-001	23", Welded Seismic Rack Insulation Pad and Bushing Kit



Step 8: Pick Rectifiers (Shipped Loose)

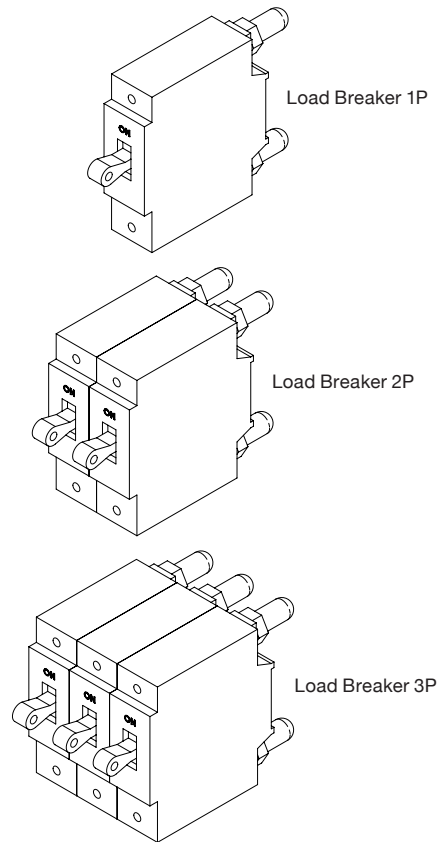
Part Number	Rectifiers
0100003-001	48V, 2.4kW Rectifier
74004266-001	2.4kW Rectifier Blank



Step 9: Pick Load Breakers (Shipped Loose)

Part Number	Load Breakers
470-300-10	CB, 1P, 1A, 80Vdc, 5/16" Bullet, Mid-trip
470-301-10	CB, 1P, 3A, 80Vdc, 5/16" Bullet, Mid-trip
470-302-10	CB, 1P, 5A, 80Vdc, 5/16" Bullet, Mid-trip
470-303-10	CB, 1P, 10A, 80Vdc, 5/16" Bullet, Mid-trip
470-304-10	CB, 1P, 15A, 80Vdc, 5/16" Bullet, Mid-trip
470-305-10	CB, 1P, 20A, 80Vdc, 5/16" Bullet, Mid-trip
470-306-10	CB, 1P, 25A, 80Vdc, 5/16" Bullet, Mid-trip
470-307-10	CB, 1P, 30A, 80Vdc, 5/16" Bullet, Mid-trip
470-308-10	CB, 1P, 35A, 80Vdc, 5/16" Bullet, Mid-trip
470-309-10	CB, 1P, 40A, 80Vdc, 5/16" Bullet, Mid-trip
470-310-10	CB, 1P, 45A, 80Vdc, 5/16" Bullet, Mid-trip
470-311-10	CB, 1P, 50A, 80Vdc, 5/16" Bullet, Mid-trip
470-312-10	CB, 1P, 60A, 80Vdc, 5/16" Bullet, Mid-trip
470-313-10	CB, 1P, 70A, 80Vdc, 5/16" Bullet, Mid-trip
470-314-10	CB, 1P, 80A, 80Vdc, 5/16" Bullet, Mid-trip
470-315-10	CB, 1P, 90A, 80Vdc, 5/16" Bullet, Mid-trip
470-316-10	CB, 1P, 100A, 80Vdc, 5/16" Bullet, Mid-trip
470-317-10*	CB, 2P, 110A, 65Vdc, 5/16" Bullet, Mid-trip
470-318-10*	CB, 2P, 125A, 65Vdc, 5/16" Bullet, Mid-trip
470-319-10*	CB, 2P, 150A, 65Vdc, 5/16" Bullet, Mid-trip
4700234*	CB, 2P, 175A, 65Vdc, 5/16" Bullet, Mid-trip
4700154*	CB, 2P, 200A, 80Vdc, 5/16" Bullet, Mid-trip
470-357-10**	CB, 3P, 225A, 80Vdc, 5/16" Bullet, Mid-trip
470-342-10**	CB, 3P, 250A, 80Vdc, 5/16" Bullet, Mid-trip
4700149*	CB, 3P, 300A, 80Vdc, 5/16" Bullet, Mid-trip

* 2P Breaker Adaptor Kit is required. ** 3P Breaker Adaptor Kit is required



Alpha Technologies Ltd.

For more information visit www.alpha.ca

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233
United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

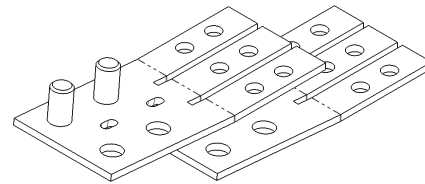
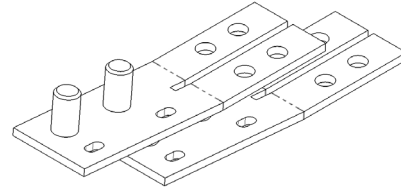
#0470209-00 Rev C (06/2016)

Alpha Technologies reserves the right to make changes to the products and information contained in this document without notice.
Copyright © 2016 Alpha Technologies. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.
member of The Alpha Group™ is a trademark of Alpha Technologies.

member of The  Group™

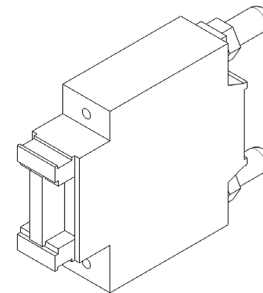
Step 10: Pick Breaker Adaptor Kit

Part Number	Breaker Adaptor Kit
0370298-001	CXDM-E2/E3, 2 Pole Breaker Adaptor Kit
0370299-001	CXDM-E2/E3, 3 Pole Breaker Adaptor Kit



Step 11: Pick TPS Fuses (Shipped Loose)

Part Number	TPS Fuses
460-217-10	TPS/TLS Fuse, 5A, 170Vdc
460-218-10	TPS/TLS Fuse, 6A, 170Vdc
460-219-10	TPS/TLS Fuse, 10A, 170Vdc
460-220-10	TPS/TLS Fuse, 15A, 170Vdc
460-221-10	TPS/TLS Fuse, 20A, 170Vdc
460-222-10	TPS/TLS Fuse, 25A, 170Vdc
460-223-10	TPS/TLS Fuse, 30A, 170Vdc
460-224-10	TPS/TLS Fuse, 40A, 170Vdc
460-225-10	TPS/TLS Fuse, 50A, 170Vdc
460-226-10	TPS/TLS Fuse, 60A, 170Vdc
460-227-10	TPS/TLS Fuse, 70A, 170Vdc
460-229-10	TPS/TLS Fuse, 90A, 170Vdc
460-230-10	TPS/TLS Fuse, 100A, 170Vdc
4600056	TPS/TLS Fuse, 110A, 170Vdc
4600057	TPS/TLS Fuse, 125A, 170Vdc
520-059-10	TFD Fuse Holder



Alpha Technologies Ltd.

For more information visit www.alpha.ca

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233
 United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

#0470209-00 Rev C (06/2016)

Alpha Technologies reserves the right to make changes to the products and information contained in this document without notice.
 Copyright © 2016 Alpha Technologies. All Rights Reserved. Alpha® is a registered trademark of Alpha Technologies.
 member of The Alpha Group™ is a trademark of Alpha Technologies.

member of The  Group™