

CXPS-E3 400A Power System

ORDERING GUIDE



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CXPS-E3 Ordering Guide

- **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.

Ordering Equipment

S.NO	PART NUMBER	SYSTEM DESCRIPTION
1	0919007-001	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 26 Load Breakers
2	0919006-001	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers, e/w LVBD
3	0919007-002	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers
4	0919006-002	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 16 Load Breakers, 5 Battery Breakers, e/w LVBD
5	0919011-001	CXPS-E3 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, Single Phase, 26 Load Breakers
6	0919011-002	CXPS-E3 19", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, Single Phase, 21 Load Breakers
7	0919012-001	CXPS-E3 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, Single Phase, 21 Load Breakers, 5 Battery Breakers e/w LVBD
8	0919012-002	CXPS-E3 19", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, Single Phase, 16 Load Breakers, 5 Battery Breakers e/w LVBD



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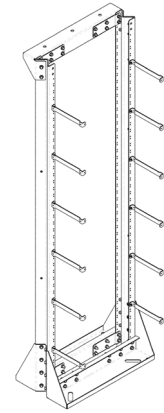


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How to build an E3 Power System

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
0919007-001	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 26 Load Breakers
0919006-001	CXPS-E3, 23", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers, e/w LVBD
0250030-015	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 21 Load Breakers
0250030-014	CXPS-E3, 19", 5RU, -48V, 400A, 2x 2.4kW Rectifier Shelf, CXC-HP, 16 Load Breakers, 5 Battery Breakers, e/w LVBD
0250029-001	CXPS-E3, 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 26 Load Breakers, 208-277Vac, 1P
0250029-002	CXPS-E3, 19", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 208-277Vac, 1P
0250029-003	CXPS-E3, 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers, w/LVBD, 208-277Vac, 1P
0250029-004	CXPS-E3, 19", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 16 Load Breakers, 5 Battery Breakers, w/LVBD, 208-277Vac, 1P
0250029-005	CXPS-E3, 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 26 Load Breakers, 480/277Vac
0250029-006	CXPS-E3, 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers, w/ LVBD, 480/277Vac
0250029-007	CXPS-E3, 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 26 Load Breakers, 208Vac
0250029-008	CXPS-E3, 23", 7RU, -48V, 400A, 1x 4kW Rectifier Shelf, CXC-HP, 21 Load Breakers, 5 Battery Breakers, w/LVBD, 208Vac



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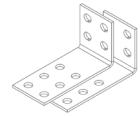
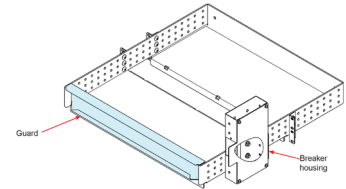
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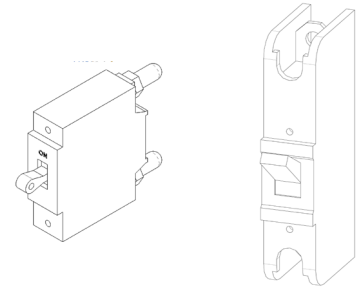
Step 3: Pick Battery Trays (Integrated in Systems)

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)
0250030-550	Battery Cable Landing Bus Bar Kit



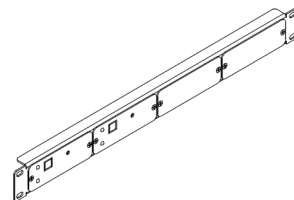
Step 4: Pick Battery Breakers (Integrated in Systems)

PART NUMBER	PLUG-IN BATTERY BREAKERS (INSTALLED INTO E3)
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
470-346-10	CB, 1P, 60A, 80Vdc, 5/16" Bullet, Series-trip
4700187	CB, 1P, 125A, 80Vdc, 5/16" Bullet, Series-trip
470-673-19*	CB, 2P, 150A, 80Vdc, 5/16" Bullet, Series-trip
470-674-19**	CB, 3P, 250A, 80Vdc, 5/16" Bullet, Series-trip
PART NUMBER	PLUG-IN BATTERY BREAKERS (INSTALLED INTO BREAKER HOUSING KIT)
470-054-10	CB, 1P, 100A, 65VDC, 1/4-20 Bolt-In, Series-trip
470-228-10	CB, 1P, 250A, 125VDC, 7/16" Bolt-In, Series-Trip
4700229	CB, 1P, 125A, 80VDC, 1/4-20 Bolt-In, Series-trip
*2 Pole Breaker Adaptor Kit is required **3 Pole Breaker Adaptor Kit is required	
5230008	Jumper, 1P, 100A, 5/16" Bullet



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



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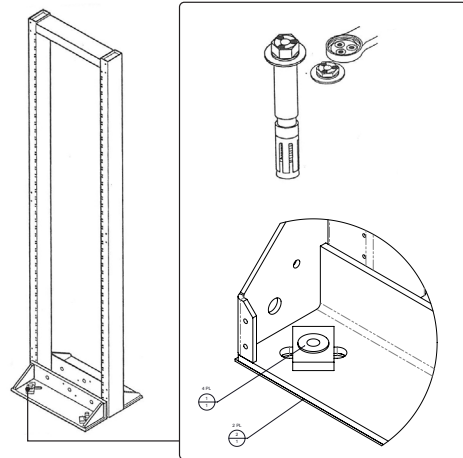
Step 6: Pick Temperature Probes (Integrated in Systems)

PART NUMBER	TEMPERATURE PROBES	PART NUMBER	TEMPERATURE PROBES
747-028-20-071	Temp Snsr, ¼" Lug, 6ft Cable Assy	747-082-20-071	Temp Snsr, ⅜" Lug, 6ft Cable, Assy
747-028-20-072	Temp Snsr, ¼" Lug, 12ft Cable Assy	747-082-20-072	Temp Snsr, ⅜" Lug, 12ft Cable, Assy
747-028-20-073	Temp Snsr, ¼" Lug, 24ft Cable Assy	747-082-20-073	Temp Snsr, ⅜" Lug, 24ft Cable, Assy
747-028-20-080	Temp Snsr, ¼" Lug, 50ft Cable Assy	747-082-20-080	Temp Snsr, ⅜" Lug, 50ft Cable, Assy
747-028-20-081	Temp Snsr, ¼" Lug, 100ft, Cable Assy	747-082-20-081	Temp Snsr, ⅜" Lug, 100ft Cable, Assy

NOTE: If battery trays are integrated into system, battery ring terminals shall follow temperature sensor size. If ⅜" lug is required choose PN: 5380225 in addition to temperature sensor.

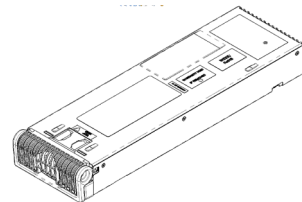
Step 7: Pick Seismic Rack Accessories (Shipped Loose)

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
7400424-001	2.4kW Rectifier Blank
0100037-001	48V, 3.0kW Rectifier
010-623-20-040	48V, 4.0kW Rectifier
7400116-001	4.0kW Rectifier Blank



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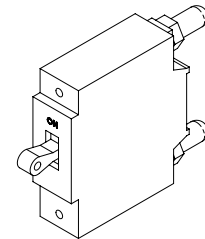
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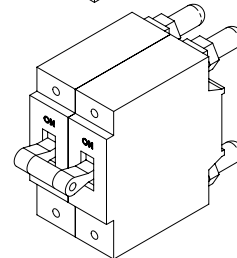
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Step 9: Pick Load Breakers (Shipped Loose)

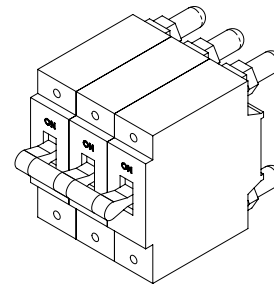
PART NUMBER	LOAD BREAKERS
470-300-10	CB, 1P, 1A, 80VDC, 5/16" Bullet, Mid-trip
470-301-10	CB, 1P, 3A, 80VDC, 5/16" Bullet, Mid-trip
470-302-10	CB, 1P, 5A, 80VDC, 5/16" Bullet, Mid-trip
470-303-10	CB, 1P, 10A, 80VDC, 5/16" Bullet, Mid-trip
470-304-10	CB, 1P, 15A, 80VDC, 5/16" Bullet, Mid-trip
470-305-10	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, 80VDC, 5/16" Bullet, Mid-trip
470-318-10*	CB, 2P, 125A, 80VDC, 5/16" Bullet, Mid-trip
470-319-10*	CB, 2P, 150A, 80VDC, 5/16" Bullet, Mid-trip
4700234*	CB, 2P, 175A, 80VDC, 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
4700279	CB, 1P, 70A, 80VDC, 5/16" Bullet, Mid-trip (Inverter 2000)



Load Breaker 1P



Load Breaker 2P



Load Breaker 3P

*2 Pole Breaker Adaptor Kit is required **3 Pole Breaker Adaptor Kit is required



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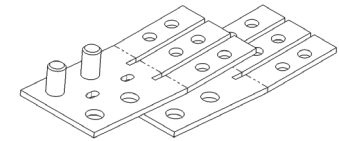
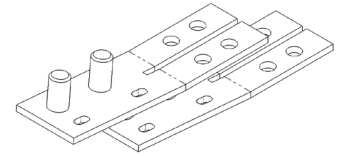
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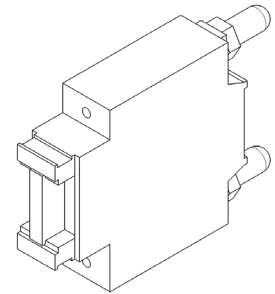
Step 10: Pick Breaker Adaptor Kit

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



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