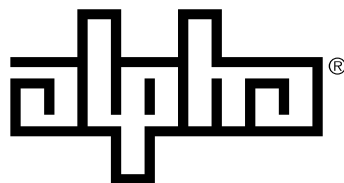


CXPS-FR3 Ferroresonant Rectifier Retrofit Solution

ORDERING GUIDE



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CXPS-FR3 Ordering Guide

- **Ferroresonant rectifier retrofit solution for RL400 and PECO II 400 rectifiers**
- **Significant CAPEX savings by maintaining existing AC and DC cabling infrastructure**
- **Unique solution providing up to 50% capacity growth or floor space savings without changes to existing infrastructure**
- **Fully integrated solution including in-bay system controller**
- **Wrap-around bay design directs heat exhaust via the top, allowing batteries to be placed directly behind the bay**

The FR3 is a standalone rectifier bay that can be used to upgrade inefficient and aging ferroresonant rectifiers. As a drop-in replacement for RL400 and PECO II 400 rectifiers, the FR3 repurposes existing AC and DC cabling which minimizes installation time and avoids costly replacements.

For decades, ferroresonant rectifiers have powered traditional telecom central offices. However, as ferros age and begin to fail, it is becoming difficult to find parts as well as qualified technicians to diagnose and repair the problems. These maintenance issues can result in lower network reliability. These issues, coupled with the ferros' relative operational inefficiencies, are driving operators to upgrade their systems to modern, high efficiency switch mode rectifiers.

Alpha Technologies provides the ideal 'like for like' retrofit solution, with minimal installation time and disruption to the office. The interfaces to the FR3 have been engineered in such a fashion that the existing AC and DC infrastructure feeding the ferroresonant plants can be reused. The building blocks for the FR3 are Alpha's highly reliable Cordex HP 12.0kW and 4.0kW rectifiers.

Unlike other solutions in the market, the FR3 design enables operators to add up to 50% more power capacity or recover floor space savings. In addition, the wrap-around bay design deflects heat flow upwards, allowing operators to install batteries directly behind the bay.

Furthermore, the bay also comes equipped with Alpha's powerful CXC HP Controller, which can further modernize the power plant with advanced control and monitoring features.



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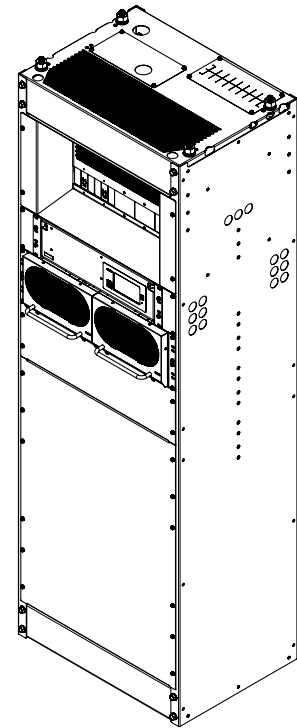


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Step 1: Select Rectifier Bay

RL 400 (LORAIN) Rectifiers

PART NUMBER	CAPACITY	VOLTAGE	MANUFACTURER	CONFIG	CONTROLLER	AC BREAKERS
0920001-001	400A	480VAC	RL 400 (LORAIN)	Single	Yes	Yes
0920001-101	400A	480VAC	RL 400 (LORAIN)	Single	Yes	No
0920001-011	400A	480VAC	RL 400 (LORAIN)	Single	No	Yes
0920001-111	400A	480VAC	RL 400 (LORAIN)	Single	No	No
0920001-002	800A	480VAC	RL 400 (LORAIN)	B2B	Yes	Yes
0920001-102	800A	480VAC	RL 400 (LORAIN)	B2B	Yes	No
0920001-012	800A	480VAC	RL 400 (LORAIN)	B2B	No	Yes
0920001-112	800A	480VAC	RL 400 (LORAIN)	B2B	No	No
0920001-003	800A	480VAC	RL 400 (LORAIN)	SBS	Yes	Yes
0920001-103	800A	480VAC	RL 400 (LORAIN)	SBS	Yes	No
0920001-013	800A	480VAC	RL 400 (LORAIN)	SBS	No	Yes
0920001-113	800A	480VAC	RL 400 (LORAIN)	SBS	No	No
0920001-004	1200A	480VAC	RL 400 (LORAIN)	B2B	Yes	Yes
0920001-104	1200A	480VAC	RL 400 (LORAIN)	B2B	Yes	No
0920001-014	1200A	480VAC	RL 400 (LORAIN)	B2B	No	Yes
0920001-114	1200A	480VAC	RL 400 (LORAIN)	B2B	No	No
0920001-005	1200A	480VAC	RL 400 (LORAIN)	SBS	Yes	Yes
0920001-105	1200A	480VAC	RL 400 (LORAIN)	SBS	Yes	No
0920001-015	1200A	480VAC	RL 400 (LORAIN)	SBS	No	Yes
0920001-115	1200A	480VAC	RL 400 (LORAIN)	SBS	No	No
0920002-001	400A	208VAC	RL 400 (LORAIN)	Single	Yes	Yes
0920002-101	400A	208VAC	RL 400 (LORAIN)	Single	Yes	No
0920002-011	400A	208VAC	RL 400 (LORAIN)	Single	No	Yes
0920002-111	400A	208VAC	RL 400 (LORAIN)	Single	No	No
0920002-002	800A	208VAC	RL 400 (LORAIN)	B2B	Yes	Yes
0920002-102	800A	208VAC	RL 400 (LORAIN)	B2B	Yes	No
0920002-012	800A	208VAC	RL 400 (LORAIN)	B2B	No	Yes
0920002-112	800A	208VAC	RL 400 (LORAIN)	B2B	No	No
0920002-003	800A	208VAC	RL 400 (LORAIN)	SBS	Yes	Yes
0920002-103	800A	208VAC	RL 400 (LORAIN)	SBS	Yes	No
0920002-013	800A	208VAC	RL 400 (LORAIN)	SBS	No	Yes
0920002-113	800A	208VAC	RL 400 (LORAIN)	SBS	No	No



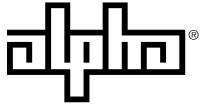
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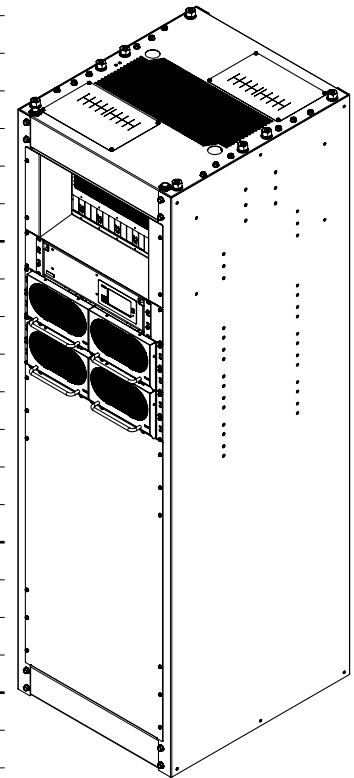
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PECO II 400 (PECO) Rectifiers

PART NUMBER	CAPACITY	VOLTAGE	MANUFACTURER	CONFIG	CONTROLLER	AC BREAKERS
0920003-001	400A	480VAC	PECO II 400 (PECO)	Single	Yes	Yes
0920003-101	400A	480VAC	PECO II 400 (PECO)	Single	Yes	No
0920003-011	400A	480VAC	PECO II 400 (PECO)	Single	No	Yes
0920003-111	400A	480VAC	PECO II 400 (PECO)	Single	No	No
0920003-002	800A	480VAC	PECO II 400 (PECO)	B2B	Yes	Yes
0920003-102	800A	480VAC	PECO II 400 (PECO)	B2B	Yes	No
0920003-012	800A	480VAC	PECO II 400 (PECO)	B2B	No	Yes
0920003-112	800A	480VAC	PECO II 400 (PECO)	B2B	No	No
0920003-003	800A	480VAC	PECO II 400 (PECO)	SBS	Yes	Yes
0920003-103	800A	480VAC	PECO II 400 (PECO)	SBS	Yes	No
0920003-013	800A	480VAC	PECO II 400 (PECO)	SBS	No	Yes
0920003-113	800A	480VAC	PECO II 400 (PECO)	SBS	No	No
0920003-004	1200A	480VAC	PECO II 400 (PECO)	B2B	Yes	Yes
0920003-104	1200A	480VAC	PECO II 400 (PECO)	B2B	Yes	No
0920003-014	1200A	480VAC	PECO II 400 (PECO)	B2B	No	Yes
0920003-114	1200A	480VAC	PECO II 400 (PECO)	B2B	No	No
0920003-005	1200A	480VAC	PECO II 400 (PECO)	SBS	Yes	Yes
0920003-105	1200A	480VAC	PECO II 400 (PECO)	SBS	Yes	No
0920003-015	1200A	480VAC	PECO II 400 (PECO)	SBS	No	Yes
0920003-115	1200A	480VAC	PECO II 400 (PECO)	SBS	No	No
0920004-001	400A	208VAC	PECO II 400 (PECO)	Single	Yes	Yes
0920004-101	400A	208VAC	PECO II 400 (PECO)	Single	Yes	No
0920004-011	400A	208VAC	PECO II 400 (PECO)	Single	No	Yes
0920004-111	400A	208VAC	PECO II 400 (PECO)	Single	No	No
0920004-002	800A	208VAC	PECO II 400 (PECO)	B2B	Yes	Yes
0920004-102	800A	208VAC	PECO II 400 (PECO)	B2B	Yes	No
0920004-012	800A	208VAC	PECO II 400 (PECO)	B2B	No	Yes
0920004-112	800A	208VAC	PECO II 400 (PECO)	B2B	No	No
0920004-003	800A	208VAC	PECO II 400 (PECO)	SBS	Yes	Yes
0920004-103	800A	208VAC	PECO II 400 (PECO)	SBS	Yes	No
0920004-013	800A	208VAC	PECO II 400 (PECO)	SBS	No	Yes
0920004-113	800A	208VAC	PECO II 400 (PECO)	SBS	No	No



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Step 2: Choose Rectifiers (shipped loose)

PART NUMBER	RECTIFIERS	
0100020-001 5900550-002	48V, 12kW Rectifier 12.0kW Rectifier Blank	
010-623-20-040 7400116-001	48V, 4.0kW Rectifier 4.0kW Rectifier Blank	

Step 3: Choose Optional System Kits (shipped loose)

PART NUMBER	KIT DESCRIPTION
0380511-001	18 Position Current Input Panel
0370474-001	Skirt for Lorain Rectifier
0370473-001	Skirt for PECO Rectifier

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