

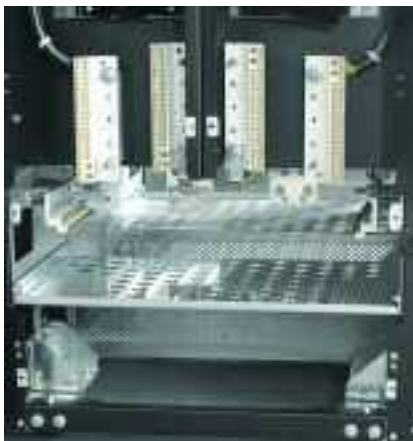
*Liebert FDC*  
A Better Way To Power Up Your Data Center





## Power distribution solutions for growing IT operations

Creating high quality power is a major step towards protecting the operation of a critical facility. But don't stop there. Once you've created a better level of power, you need to make sure that it can be distributed properly to each and every piece of important equipment.



*Ground and neutral output connections are conveniently located in the bottom of the unit for easy wiring. Conduit-landing plate provided with plugged holes — no knock-outs.*

### Providing Proper Power To Each Plug

Power distribution is an ever-important function in data center and IT environments. Whereas in the past it was considered a simplistic solution, the exploding number of dynamic devices and dual-corded loads has elevated the criticality and visibility of power distribution.

The proper distribution of power from the UPS system to your critical load equipment is a key element of system availability. Studies show that 80% of all power-related downtime is caused by disruptions between the UPS and the critical load.

As your rack-based systems grow in number, complexity and criticality — so must your power distribution system. To meet this challenge Liebert has created a product designed to optimize power distribution at the rack level with the “plug and play” flexibility that today's IT managers demand from their systems.

The **Liebert FDC** distribution cabinet extends the functionality of the PDU by packaging 168 poles (four complete panelboards) in a stand-alone cabinet with a rack footprint.

### Critical Power Distribution Made Easy

The Liebert FDC provides additional distribution capacity for a high number of critical loads. It can be used in conjunction with the Liebert FPC power center to provide expanded panelboard electrical pole connections closer to the load.

The Liebert FDC utilizes the standard size and appearance of the Liebert Foundation™ enclosure to address the needs of today's IT requirements. The Foundation style enclosure enables these units to be used as part of a rack enclosure grouping as well as in standalone applications. The use of a standard size rack enclosure also enables these units to be placed at various locations within a row of racks.

### Managed Power Solutions

The Liebert FDC distribution cabinet is part of the Liebert MP Product Family—a group of power distribution and switching systems designed to manage power from the UPS all the way to each individual piece of computing and communications hardware. Liebert believes you can't get to “high 9's” reliability with a good UPS alone. You need a total high availability power distribution solution to reach that level of performance.



*Optional Maintenance Tie-Breakers allow connection to different inputs without shutting down the load.*

*The Enhanced Monitor with Modbus RTU communications is one of several monitoring options available.*



## The Liebert FDC

The influx of client/server rack equipment is changing the content of data centers. There are more devices than before, and with 2, 3, and 4 input power cords most power distribution units (PDUs) run out of circuit breaker poles before they run out of rated capacity.

The Liebert FDC extends the functionality of the PDU by packaging 168 poles (four complete panelboards) in a cabinet that can integrate with rack enclosures or function as a standalone unit.

Unlike standard Liebert Precision Power Centers or the Liebert FPC, the Liebert FDC has no internal isolation transformer and requires 4-wire-plus-ground input from a PPC or other transformer.

By separating the transformer from the panelboard function, Liebert was able to create an extremely compact package. It fits the same area as a standard 19" rack. This conserves precious floor space and allows maximum installation flexibility.

### Accessibility And Electrical Isolation

The Liebert FDC uses inline 42-pole panelboards with wide-open access channels. The four panelboards are separated into vertical compartments with individual hinged access covers. Any compartment can be serviced or reconfigured without exposing the wiring of the other three panelboards.

#### The standard Liebert FDC unit includes:

- 4 panelboards with main breaker.
- Front and rear access only.
- Bottom cable exit.

*Input power connections with provisions for 2 hole lugs are standard on the Liebert FDC.*



#### Optional features include:

- Top cable exit.
- 22kAIC main panelboard breakers.
- Enhanced Monitoring with remote communications — Modbus output.
- Current monitoring panel.
- Isolated ground bus bars.
- EZ-view doors to enable visual inspection of the breakers without unlocking the cabinet.
- Square D or GE inline panelboards in bolt-in or plug-in styles.
- Maintenance Tie-breakers to allow connection of the panelboards to different inputs (requires side access). Inputs must be fed from the same source so they can be tied together.
- Plug-in main panelboard breakers.
- Branch Circuit Monitoring System.

# Ensuring The High Availability Of Mission-Critical Data And Applications.

## Liebert FDC Specifications — Model Number Designation

FD	C	44	4	4	SB	1	0
	Input Voltage	Frame	No. of Inputs	No. of Panelboards	Panelboard Type <sup>1</sup>	Panelboard Main Breaker <sup>2</sup>	Monitoring
FD	C-208V	44 - 2 Door	1 - One	1 - One	SB - Sq D	1 - Standard	0 - No
	F-380V	Bottom	2 - Two	2 - Two	Bolt-in	2 - High AIC	Monitoring
	U-400V	Cable Exit	4 - Four	3 - Three	SP - Sq D	P - Plug-in	1 - Current
	G-415V	54 - 3 Door		4 - Four	Plug-in		Monitoring
		Bottom			GB - GE		2 - Enhanced
		Cable Exit, w/Tie			Bolt-in		Monitoring w/Modbus
		Breakers			GP - GE		3 - BCMS
		64 - 2 Door Top			Plug-in		4 - Current
		Cable Entry					Monitoring w/BCMS
		74 - 3 Door Top					5 - Enhanced
		Cable Exit, w/Tie					Monitoring w/BCMS
		Breakers					

<sup>1</sup> GE panelboards not available at 380-415V.

<sup>2</sup> High AIC main breakers not available at 380-415V.

### Physical Data — Liebert FDC

	Width		Depth		Height		Weight	
	in.	cm.	in.	cm.	in.	cm.	lbs.	Kg.
Uncrated	23.5	60	38	97	78.5	199	825	374
Domestic Packing	48	122	48	122	83	211	850	385
Export Packing	50	127	50	127	85	216	1000	454

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