

Flatpack2 DC-DC Converter Shelf

Overview

Eliminate the need for two battery systems to support sites with multiple voltage equipment by adding an Eltek Flatpack2 DC-DC Converter Shelf. The easy-to-install Flatpack2 DC-DC Converter Shelf (available in 24V or 48V output voltages) is designed to convert a wide input voltage range to standard telecom voltages. The system features Eltek's High Efficiency technology that makes it ideal for supporting sites with dual voltage requirements, such as +24V legacy and newer microwave or LTE -48V telecom equipment.



FLATPACK2 DC-DC CONVERTER SYSTEMS

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APPLICATIONS

The Eltek Flatpack2 DC-DC Converter System is a high-efficiency power solution with an optimal footprint where space is limited – both in typical racks and some cabinet installations.

The Flatpack2 DC-DC system delivers DC power solutions to telecommunications infrastructures where dual voltage 24/48V or 48/24V are required to power new and legacy equipment from a primary DC voltage source.

PRODUCT DESCRIPTION

At 18.5" deep, the Flatpack2 DC-DC system is designed for use in 19" ANSI/EIA 310-D racks and cabinets. Extender brackets are included for use in 23" racks.

Powered by Flatpack2 HE DC-DC converter modules, efficiency exceeds 93% at 48V DC output.

Optional Configurations:

- Converter system without alarm module or controller
- Converter system with Smartpack1 alarm module
- Converter system with Compack controller

KEY FEATURES

- COMPACT DESIGN

 Small overall dimensions are ideal for rack applications.
- REAR ACCESS CONNECTIONS
 DC loads are rear access. All cabling is
 horizontal to reduce vertical space.
- HEAT MANAGEMENT
 Flatpack2 converter module features
 front-to-back airflow and chassisintegrated heat-sinks, supplementing
 high-efficiency energy conversion with
 excellent heat management.
- COST-EFFICIENCY
 A true plug-and-play system, the
 Flatpack2 DC-DC Converter reduces both
 time-to-install and overall costs.

FP2 DC-DC CONVERTER SYSTEMS



INPUT DATA	24V OUTPUT SYSTEM				48V OUTPUT SYSTEM			
	1U SHELF		2U SHELF		1U SHELF	2U SHELF		
Nominal Voltage	48V [DC C	48 V DC		24 V DC	2	24 V DC	
Voltage Range	ge Range 20 – 75V D0		20 - 75V DC		20 - 75V DC	20 - 75V DC		
Current (@ Input Voltage)	143A DC (@ 42V DC)*		286A DC (@ 42V DC)*		28A DC (@ 21 V DC)*	456A	456A DC (@ 21V DC)*	
Current (@ Input Voltage)	240A DC (@ 20V DC)*		480A DC (@ 20V DC)*		40A DC (@ 20V DC)*	480A	480A DC (@ 20V DC)*	
OUTPUT DATA	1U SHELF		2U SHELF		1U SHELF	2U SHELF		
Nominal Voltage	27V DC		27V DC		54V DC		54V DC	
Adjustable Range	24 - 28V DC		24 - 28V DC		48 - 58.5V DC	48 - 58.5V DC		
Power (25V _{in} –75V _{in})	5.4 kW*		10.8 kW*		5.4 kW*	10.8 kW*		
Current (at Nominal Output Voltage)	200A*		400A*		100A*	200A*		
DIMENSIONS	1U SHELF		2U SHELF		1U SHELF	21	2U SHELF	
Dimensions (H x W x D)	1.75" X 19"	x 18.8"	3.5" X 19" x 18.8"		.75" X 19" x 18.8"	3.5" እ	3.5" X 19" x 18.8"	
Rack Requirements		1	.9" ANSI/EIA 310-D or	r 23" Rack with	Extender Brackets (I	Provided)		
Input/output Connections	Input: 3/8"- Output: 3/8"		Inputs: 2x 3/8"-16 Outputs: 2x 3/8"-1		nput: 3/8"-16 Studs utput: 3/8"-16 Studs		2x 3/8"-16 Studs : 2x 3/8"-16 Studs	
ENVIRONMENTA	L 1USH	IELF	2U SHELF		1U SHELF		2U SHELF	
Operating Temperatu	ıre		-40°C	C to +65°C (-40°	F to +149°F)			
				•	r Converter Datashe	et		
Temperature Deratin	g			'				
•	<u> </u>			C to +70°C (-40°	F to +158°F)			
Temperature Deratin Storage Temperature Weight	9	2 lbs		C to +70°C (-40°	F to +158°F) 12 lbs		24 lbs	
Storage Temperature	9	2 lbs	-40°C	C to +70°C (-40°			24 lbs	
Storage Temperature Weight	All shelves h	nave a CAN co e ordered witl	-40°C 24 lbs onnector to communion on an alarm module the	cate with an Elt at will take one	12 lbs ek controller in a rec		. In addition, the	
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*Depends on number of modules installed.

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Specifications are subject to change without notice