

Flatpack S 2U Shelves High Efficiency DC Power System

Overview

The Flatpack S 2U DC power system delivers up to 200 A to applications where space is limited. Use of the highly-efficient and reliable Flatpack S rectifier, the advanced Smartpack S controller, and remarkably flexible front-access distribution make for optimal system design and cost-effective deployment.



FLATPACK S 2U

HIGH-EFFICIENCY DC POWER SYSTEM

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APPLICATIONS

The Eltek Flatpack S 2U system is a highefficiency power solution with an optimal footprint for up to 200A applications where space is limited – both in racks and various cabinet installations.

The Flatpack S 2U is a two rack-unit high system that delivers 24V and 48V DC power to telecom infrastructure that include: 4G/LTE, FTTX, distributed antenna systems (DAS), microwave broadband, cable broadband, telephony servers and switches and fiber-optics.

PRODUCT DESCRIPTION

The compact size of the system makes it perfect for use in 19" or 23" wide racks and cabinets. And at 2U high, there's more room for technicians to connect cables and work inside the system. Horizontal cabling reduces vertical space requirements and connections are all front access. Built as a plug-and-play system, the Flatpack S 2U reduces installation time and enables cost-effective deployment.

Eltek's Flatpack S high-efficiency rectifiers power the Flatpack S 2U, and typically achieve efficiency levels above 95 percent at 48V DC output.

When combined with Eltek's advanced Smartpack S controller, the system provides remote monitoring, maintenance and data collection.

KEY FEATURES

- COMPACT DESIGN

 Small overall dimensions are ideal for both rack and cabinet applications.
- FRONT/SIDE ACCESS CONNECTIONS
 The AC connections, DC loads and
 controller connections (alarms,
 communication, etc.) are front access.
 Horizontal cabling reduces vertical space
 requirements.
- DIGITAL CONTROLLER
 The Smartpack S digital controller system provides comprehensive monitoring and regulation by utilizing a variety of specialized data collection.
- HEAT MANAGEMENT
 Flatpack S modules feature front-to-back
 airflow and chassis-integrated heat-sinks,
 supplementing high-efficiency energy
 conversion with excellent heat
 management.
- COST-EFFICIENCY
 A true plug-and-play system, the
 Flatpack S 2U system reduces both timeto-install and overall costs.



FLATPACK S 2U



INPUT SPECIFICATIONS								
Input Voltage	100V – 250V AC or DC (full output power above 185 V)							
Input Connections								
	MATE-N-LOK connectors, to power two rectifiers per line cord)							
OUTPUT SPECIFICATIONS	24V			48V				
	27.00 V DC			E4.00 \/ D	5400 V DC			
Nominal Voltage Operating Voltage Range	22.00 - 27.00 V DC				54.00 V DC 47.00 – 57.7 V DC			
Maximum Power (Input at >185 V)	5.4 kW*				10.8 kW*			
Maximum Current	200A				200A			
PHYSICAL ATTRIBUTES								
Shelf Dimensions (H x W x D)	3.5" x 19" x 12"							
Rack Requirements	19" ANSI/EIA 310-D and 23" racks with extender brackets (sold separately)							
Weight	21 lbs without rectifiers or controller							
OUTPUT DISTRIBUTION SPECIFI	CATIONS							
Breakers	Four (4) bullet-style breaker positions (dry contact breakers, sold separately)							
Bulk	Two (2) Connections (top access required)							
GMT Fuses	Ten (10) GMT fuses (fuses sold separately)							
LVBD	Optional battery low voltage disconnect							
OTHER SPECIFICATIONS								
Operating temperature	-40°C to 65°C	: (-40°F to +14	19°F) full output	power below	45°C (113°F)			
Storage temperature	-40°C to 65°C (-40°F to +149°F) full output power below 45°C (113°F) -40°C to +70°C (-40°F to +158°F)							
			,					
STANDARDS								
Electrical Safety	UL/CSA 60950-1, 2 nd edition							
ENII/ENIO	IEC 60950-1, 2 nd edition							
EMI/EMC Environment								
Environment	Directive 201	1/65/FU (Rol	HS2)					
							Bulk	
SHELF PART NUMBERS	AC Food	Nominal	Battery LVD	Number of	Number of	Number of	Connection	
	AC Feed	Output Voltage	(LVBD)	Battery Breakers	Load Breakers	GMT Fuses	(top access	
					Dicakcis		required)	
FPSI50I-ANL-VC	Individual	-48V	Yes	0	4	10	Battery	
FPSI50I-ANS-VC	Individual	-48V	No	0	4	10	Battery	
FPSI50I-BPL-VC FPSI50I-BPS-VC	Individual Individual	+24V +24V	Yes No	0	4	10 10	Battery	
FPSI50I-BPS-VC FPSI56I-ANL-VC	Individual	-48V	Yes	2	2	10	Battery Load	
FPSI56I-ANS-VC	Individual	-48V	No	2	2	10	Load	
FPSI56I-BPL-VC	Individual	+24V	Yes	2	2	10	Load	
FPSI56I-BPS-VC	Individual	+24V	No	2	2	10	Load	
FPSI57I-ANL-VC	Individual	-48V	Yes	4	0	10	Load	
FPSI57I-ANS-VC	Individual	-48V	No	4	0	10	Load	
FPSI57I-BPL-VC	Individual	+24V	Yes	4	0	10	Load	
FPSI57I-BPS-VC	Individual	+24V	No	4	0	10	Load	
CONTROLLER PART NUMBERS (SOLD SEPAR	RATELY)						
242100.410.00005	-48V shelves with LVBD							
242100.410.00006	-48V shelves No LVBD							
242100.410.00007	+24V shelves with LVBD							
242100.410.00008	+24V shelve							
RECTIFIER PART NUMBERS (SOL								
241122.105.VC	Flatpack S 48/1000 HE with CLEI							
0.411.00.1.05.1/0								
241122.125.VC	Flatpack S 4	8/1800 HE w						
241122.125.VC 241122.205 241122.930		8/1800 HE w 4/1000 HE						

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Specifications are subject to change without notice.



^{*} Actual value depends on the rectifiers installed; see rectifier datasheet.