

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 highlyefficient and reliable Flatpack S rectifier, the advanced Smartpack S controller, and remarkably flexible front-access distribution make for optimal system design and costeffective deployment.



FLATPACK S 2U HIGH-EFFICIENCY DC POWER SYSTEM

Doc 370039.DS3 Issue 2.1

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 or rear 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 OR REAR ACCESS CONNECTIONS

The AC connections, DC loads and controller connections (alarms, communication, etc.) are all front or all rear 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-toback airflow and chassis-integrated heat-sinks, supplementing highefficiency energy conversion with excellent heat management.
- COST-EFFICIENCY A true plug-and-play system, the Flatpack S 2U system reduces both time-to-install and overall costs.

FLATPACK S 2U



INPUT SPECIFICATIONS

	SATIONS									
Input Voltage		100V - 250V	AC or DC (f	ull output power	above 185 V)				
Input Connections			Individual Feed using AMP MATE-N-LOK connectors (optional input cables with a single plug and two MATE-N-LOK connectors, to power two rectifiers per line cord)							
OUTPUT SPECIFICATIONS		24V	24V 48V							
Nominal Voltage		27.00 V DC	27.00 V DC			54.00 V DC				
Operating Voltage Range		22.00 - 27.00	22.00 - 27.00 V DC			47.00 – 57.7 V DC				
Maximum Power (Input at >185 V)		5.4 kW*	5.4 kW* 10.8 kW*							
Maximum Current		200A	200A 200A							
PHYSICAL ATT	RIBUTES									
Shelf Dimensions ($H \times W \times D$)			3.5" x 19" x 12" ("I" systems), 3.5" x 19" x 14" ("K" systems),							
Rack Requirements			19" ANSI/EIA 310-D and 23" racks with extender brackets (sold separately)							
Weight		21 lbs withou	21 lbs without rectifiers or controller							
OUTPUT DISTRIBUTION		l System	l System				K System			
Breakers			Four (4) bullet-style breaker positions Six (6) bullet-style breaker positions							
			(dry contact breakers, sold separately) (dry contact breakers, sold separately)							
Bulk		Two (2) Conr	Two (2) Connections (top access required) One (1) Connection (rear access required)							
GMT Fuses			Ten (10) GMT fuses (fuses sold separately) Optional battery low voltage disconnect				Ten (10) GMT fuses (fuses sold separately) Optional battery low voltage disconnect			
LVBD		Optional bat	tery low volt	age disconnect		Optional batte	ry low volt	age disconnect		
OTHER SPECIFI	CATIONS									
Operating tempera				149°F) full outpu	it power belov	w 45℃ (113℃F)				
Storage temperatu	re	-40°C to +70	°C (-40°F to ·	+158°F)						
STANDARDS										
Electrical Safety			UL/CSA 60950-1, 2 nd edition IEC 60950-1, 2 nd edition							
EMI/EMC		GR-1089-CO	RE							
Environment		GR-63-CORE Directive 203	11/65/EU (R	oHS2)						
					Number of	Number of	Number	Bulk		
SHELF PART	Connections	AC Feed	Output		Battery	Load	of GMT	Connection		
NUMBERS	connections		Voltage	(LVBD)	Breakers	Breakers	Fuses	(access required		
FPSI50I-ANL-VC	Front/side	Individual	-48V	Yes	0	4	10	Battery (top)		
FPSI50I-ANS-VC	Front/side	Individual	-48V	No	0	4	10	Battery (top)		
	Front/side			Yes	0	4		Battery (top)		
				No		-		Battery (top)		
						•				
							10			
		-								
			-48V shelves with LVBD +24V shelves with LVBD							
		Flatpack S 48/1000 HE with CLEI								
241122.125.VC			Flatpack S 48/1800 HE with CLEI							
241122.123.VC			Flatpack S 24/1000 HE							
241122.205		Flatpack S 2	24/1000 HE							
FPSI50I-ANL-VC FPSI50I-ANS-VC FPSI50I-BPL-VC FPSI50I-BPS-VC FPSI56I-ANL-VC FPSI56I-BPL-VC FPSI56I-BPL-VC FPSI56I-BPS-VC FPSK59I-ANL-VC FPSK59I-ANS-VC CONTROLLER P SPS-FPS200-B01-VV SPS-FPS200-B01-VV RECTIFIER PAR 241122.105.VC	Front/side Front/side Front/side Front/side Front/side Front/side Rear Rear Rear ART NUMBERS	Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual S (SOLD SEPAR -48V shelve +24V shelve Flatpack S	Nominal Output Voltage -48V -48V +24V +24V -48V +24V +24V +24V +24V -48V RATELY es with LVBD rELY) 48/1000 HE	Battery LVD (LVBD) Yes No Yes No Yes No Yes No Yes No Yes No	Battery Breakers 0 0	Load Breakers 4 4	of GMT Fuses 10	Connecti (access requ Battery (t Battery (t Battery (t		

Doc 370039.DS3 Issue 2.1

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

Specifications are subject to change without notice.