

# Flatpack S – Intrepid Series

## 1U High Efficiency DC Power System

### Overview

Increasing network speed demands flexible and expandable DC power solutions. Due to its small size, high efficiency, reliability and wide range of communication, the Flatpack S Intrepid Series Systems are the key for future needs. The shallow depth makes the system suitable for most cabinets and thereby excellent as a replacement unit.



# FLATPACK S 1U

## HIGH-EFFICIENCY DC POWER SYSTEM

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### APPLICATIONS

The Eltek Flatpack S 1U system is a high-efficiency power solution with an optimal footprint for applications where space is limited – both in racks and various cabinet installations.

The Flatpack S 1U is a one rack-unit high system that delivers 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. Built as a plug-and-play system, the Flatpack S 1U reduces installation time and enables cost-effective deployment.



Smartpack S Controller



Flatpack S 48V 1800W Rectifier

### KEY FEATURES

- **COMPACT DESIGN**  
Small overall dimensions are ideal for both rack and cabinet applications.
- **SIDE / REAR ACCESS CONNECTIONS**  
DC loads and controller connections (alarms, communication, etc.) are front accessible. The AC connections and battery connections are rear.
- **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 1U system reduces both time-to-install and overall costs.

# FLATPACK S 1U



## INPUT SPECIFICATIONS

Input Voltage	100V – 250V AC or DC (full output power above 185 V)
Input Connections	Individual Feed using MATE-N-LOK connectors. AC line cords are available to convert shelves into Dual Feed.

## OUTPUT SPECIFICATIONS

	48V
Nominal Voltage	54.00 V DC
Operating Voltage Range	47.00 – 57.7 V DC
Maximum Power (Input at >185 V)	5.4 kW <sup>1</sup>
Maximum Rated Current	80A

## PHYSICAL ATTRIBUTES

Shelf Dimensions (H x W x D)	1.75" x 19" x 11.875"
Rack Requirements	19" ANSI/EIA 310-D and 23" racks with extender brackets (sold separately)
Weight	12 lbs. without rectifiers or controller

## OUTPUT DISTRIBUTION SPECIFICATIONS

Breakers	Four (4) bullet-style breaker positions, 60 & 62 circuits only (dry contact breakers, sold separately) Two (2) bullet-style breaker positions, 65 & 66 circuits only (dry contact breakers, sold separately)
GMT Fuses	Ten (10) GMT fuses, 65 & 66 circuit only (fuses sold separately)
LVBD	Optional battery low voltage disconnect

## OTHER SPECIFICATIONS

Operating temperature <sup>2</sup>	-40°C to 65°C (-40°F to +149°F) full output power below 45°C (113°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)

## STANDARDS

Electrical Safety	UL/CSA 60950-1, 2 <sup>nd</sup> edition IEC 60950-1, 2 <sup>nd</sup> edition
EMI/EMC	GR-1089-CORE
Environment	GR-63-CORE, GR-3108-CORE Directive 2011/65/EU (RoHS2)

SHELF PART NUMBERS	DC Load	AC Feed	Nominal Output Voltage	Battery LVD (LVBD)	Number of Battery Breakers	Number of Load Breakers	Number of GMT Fuses
FPSJ60I-ANL-VC	Rear	Individual	-48V	Yes	2	2	0
FPSJ60I-ANS-VC	Rear	Individual	-48V	No	2	2	0
FPSJ62I-ANL-VC	Rear	Individual	-48V	Yes	1	3	0
FPSJ62I-ANS-VC	Rear	Individual	-48V	No	1	3	0
FPSJ65I-ANL-VC	Rear	Individual	-48V	Yes	2	0	10
FPSJ65I-ANS-VC	Rear	Individual	-48V	No	2	0	10
FPSJ66I-ANL-VC	Rear	Individual	-48V	Yes	1	1	10
FPSJ66I-ANS-VC	Rear	Individual	-48V	No	1	1	10
FPSF65I-ANL-VC	Side	Individual	-48V	Yes	2	0	10
FPSF65I-ANS-VC	Side	Individual	-48V	No	2	0	10
FPSF66I-ANL-VC	Side	Individual	-48V	Yes	1	1	10
FPSF66I-ANS-VC	Side	Individual	-48V	No	1	1	10

## CONTROLLER PART NUMBERS (SOLD SEPARATELY)

SPS-FPS100-A01-VV	-48V shelves with LVBD
SPS-FPS100-A04-VV	-48V shelves no batteries (battery functions disabled, circuit breakers used for equipment load)

## RECTIFIER PART NUMBERS (SOLD SEPARATELY)

241122.105.VC	Flatpack S 48/1000 HE with CLEI
241122.125.VC	Flatpack S 48/1800 HE with CLEI
241122.930	Flatpack S Blind Panel

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<sup>1</sup> Actual value depends on the rectifiers installed; see rectifier datasheet, Doc. No. 241122.1x5.DS3

<sup>2</sup> Reference rectifier datasheet for additional operating ranges, Doc. No. 241122.1x5.DS3

Specifications are subject to change without notice.

