

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

Doc 370012.DS3 Issue 2.1

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.

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 ¹
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 ²	-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 nd edition IEC 60950-1, 2 nd 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
FPSJ65I-ANL-VC	Rear	Individual	-48V	Yes	2	0	10
FPSJ65I-ANS-VC	Rear	Individual	-48V	No	2	0	10
FPSF65I-ANL-VC	Side	Individual	-48V	Yes	2	0	10
FPSF65I-ANS-VC	Side	Individual	-48V	No	2	0	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

Doc 370012.DS3 Issue 2.1

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

² Reference rectifier datasheet for additional operating ranges, Doc. No. 241122.1x5.DS3

Specifications are subject to change without notice.