ELTEK
A Delta Group Company

# 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.

# FLATPACK S 1U

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| 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)<br>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, 2nd edition<br>IEC 60950-1, 2nd edition |
| EMI/EMC | GR-1089-CORE |
| Environment | GR-63-CORE, GR-3108-CORE<br>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 |

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Specifications are subject to change without notice.

[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