

Integrated Power Systems

**New Higher
Battery Capacity**

The Integrated Power System (IPS) is a unique multifunction power supply which incorporates built-in battery back-up and numerous power accessories within a single 2RU (3.5") chassis, thus eliminating time-consuming system integration, component sourcing and installation, while saving precious rack space—ideal for any low-to-medium power application requiring AC fault tolerant operation.

A precision regulated power supply/charger, back-up battery, low voltage battery disconnect, output metering, LED status and Form C alarm contacts are all pre-wired and calibrated within the unit for plug-and-play operation. Plug-in terminals are provided for easy wiring of an additional parallel rectifier input, or external batteries for increased back-up capacity.



The batteries are always in-line with the load, thus there is no interruption from relays or transfer switches in the event of AC loss. Batteries are recharged when AC is restored. A manual battery disconnect switch allows internal or external battery service or replacement while the system is running. Models available for -48, +24 and +12 volt applications.

Features

- Precision regulated power supply simultaneously maintains batteries at peak charge and supplies system load.
- Built-in batteries instantly power load during AC failure—no switch-over delay. 3-5 year average life. Terminals provided for additional external batteries for increased back-up capacity.
- Terminals provided for easy addition of parallel rectifier. (48V and 24V models only)
- Automatic low voltage and manual battery disconnect.
- Numerous front panel monitors—L.E.D. status indicators and digital ammeter/voltmeter.
- Form C summary failure alarm contacts; loss of internal rectifier output, loss of external rectifier output, LVBD contactor open. AC input failure alarm contacts optional.
- Numerous protection features—AC input breaker, internal battery breaker, auto thermal shutdown/recovery, current-limiting, short-circuit and over-voltage protection.
- 19" or 23", 6" forward rackmount brackets provided

Specifications

Model	Input Amps @ Full Load 115 / 230	VDC	Output Adjustment Range	Amps Continuous	Internal Battery Capacity	Ground Reference	Weight Lbs.
IPS 48-11	11 / 5.5	54.4	40-60 VDC	11	5 A-H	Positive	33
IPS 24-22	11 / 5.5	27.2	20-30 VDC	22	10 A-H	Negative	33
IPS 12-40	11 / 5.5	13.6	10-15 VDC	40	20 A-H	Negative	33

AC Input

Input Range (switch selectable):

115V = 92-130 VAC

230V = 184-260 VAC

Frequency: 47-63 Hz

DC Output

Voltage: See Matrix above

Adjustment Range: See Matrix above

Amps Continuous: See Matrix above

Maximum Load with External Rectifier and Battery Inputs: 40 amps

Regulation: Line: $\pm 1\%$

Load: $\pm 2\%$

Ripple: $\pm 1\%$

Environmental

Temperature Rating: -10° to + 60° C;

Derate linearly from 100%

load @ 50° C to 75% @ 60° C

Mechanical

Chassis: Aluminum

Rack Size: 19" or 23", 2 RU (3.5")

Cooling: Forced Air

Dimensions: 3.5"H x 17"W x 18"D

Weight: 33 Lbs. (with batteries)

17 Lbs. (without batteries)

Protection

- Current Limit, Short Circuit
- Over Voltage
- Auto Thermal Shutdown/Recovery
- Input Fuse and Circuit Breaker
- Circuit Breaker For Internal Battery
- Low Voltage Battery Disconnect (Adjustable)

Internal Batteries

Type: 12 Volt, 5 A-H Sealed Lead-Acid Maintenance-Free

Amp-Hour Capacity: See Matrix below

Weight: 4 Lbs. each; 4 Batteries per Unit

Approvals: UL Recognized, DOT and IATA approved for shipment by air

Internal Battery Constant Current Performance (Amps) to 1.75 VPC

MODEL	5 MIN.	15 MIN.	30 MIN.	1 HR.	2 HRS.
IPS 48-11	15.0	8.0	5.0	3.0	2.0
IPS 24-22	30.0	16.0	10.0	6.0	4.0
IPS 12-40	40.0	32.0	20.0	12.0	8.0

Indicators and Alarms

System "Nominal" indicator lights:

- AC OK
- External Rectifier ON/OK*
*Except IPS-12-40
- Internal Rectifier On/OK
- Battery Contactor Closed

System "Warning" indicator lights:

- Check System
- Battery Disconnected

Form C Alarm Contacts:

- Summary Failure
- AC Input Failure (Optional)

Options

External Rectifier: 24V, 48V only; 500 or 1,000 watt (see PM Series page 6)

AC Input Fail Contacts - Specify 115 or 230 VAC

Rectifier/Battery Input Cable Assembly (Model CA-24)

Rear Support Bracket for Flush Mounting

Models: RSB-19 or RSB-23

Distribution Panel Models: DST-10 (UL), DST-20A (UL)

Unit Supplied Without Batteries



Powering the Network