## **Integrated Power Systems**

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.



#### Specifications

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

#### **AC** Input

Input Range (switch selectable): 115V = 92-130 VAC 230V = 184-260 VAC Frequency: 47-63 Hz

#### **DC Output**

Voltage/Amperage: See Matrix above Maximum Load with External Rectifier and Battery Inputs: 40 amps Regulation: Line: ± 1 %, Load: ± 2 % Ripple: ± 1 %

### Power Scaling via Back Panel Quick Connects

External Rectifier Input: 24V, 48V only; 560 or 1,000 watt (see PM Series page 6) External Battery Bank: 12V/24V/48V

#### 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

#### 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

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

> 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

#### Top View with cover removed

Form C: AC Input Failure Alarm (Optional)

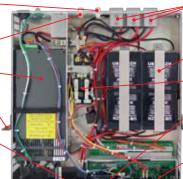
Form C: Summary Alarm Output Contacts

Power Supply/ Battery Charger Module

19" & 23" Rack Mount Ears Provided

Battery On-Line/Off-Line Control Circuit Breaker Front Panel

Output Voltage Adjust Front Panel



- System Output, External Battery & External Rectifier\* Quick Connect

- / Internal Battery Bank
- Low Voltage Disconnect Circuit

System Status/Digital Battery Condition Meter (V&A) Front Panel

Manual Battery Disconnect Switch - Front Panel

System Status L.E.D.'s Front Panel

# Powering the Network

\* 24V and 48V models only