

# 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	Output			Internal Battery Capacity	Ground Reference
		VDC	Adjustment Range	Amps Continuous		
IPS 48-11	11 / 5.5	54.4	40-60 VDC	11	5 A-H	Positive
IPS 24-22	11 / 5.5	27.2	20-30 VDC	22	10 A-H	Negative
IPS 12-40	11 / 5.5	13.6	10-15 VDC	40	N/A	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:  $\pm 1\%$ , Load:  $\pm 2\%$   
**Ripple:**  $\pm 1\%$

## 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**

MODEL	Internal Battery Constant Current Performance (Amps) to 1.75 VPC				
	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

