

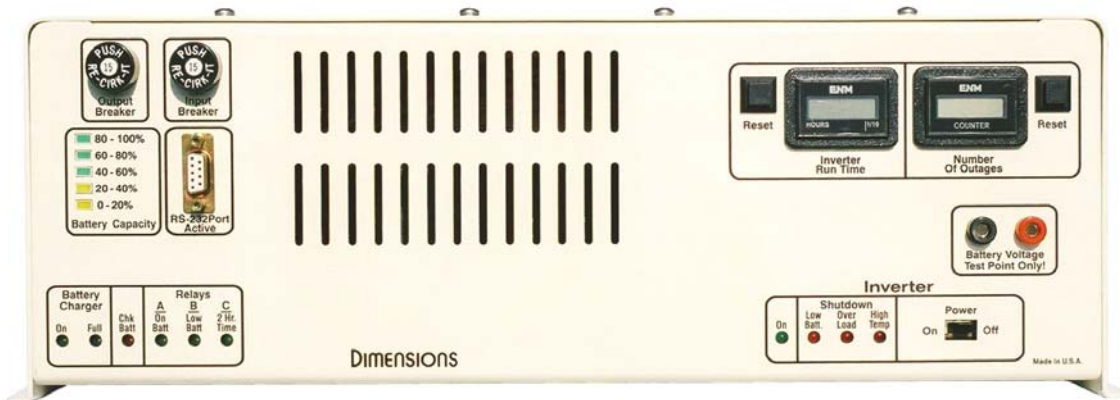
Battery Backup Systems



Dimensions Battery Backup Systems are designed to provide reliable power to your traffic signal intersections. Through thunderstorms, blown transformers, downed power lines or other interruptions, our Battery Backup Systems will keep your LED intersections running for hours.

Dimensions is known for high performance and high reliability products with premium customer service.

We manufacture our products in three case styles to fit our customer's needs. The "Y" case is used in a rack mount type cabinet. The "M" case is used in an external type cabinet. The "J" case is used in a NEMA cabinet. Whatever your application, we have a model to fit.



- Easy to operate
- Fast, pluggable connections
- Either 1,100 or 1,700 watt power output
- Caltrans Approved
- UL Listed for use with Traffic Signals
- Temperature compensated battery charger
- 3 case styles to choose from
- . . . And much more!



Sensata

Technologies

http://dimensions.sensata.com

1-800-553-6418
 4467 White Bear Pkwy.
 St. Paul, MN 55110-7626
 Fax: 651-653-7600

Other Design Features:

- Pure Sine wave, less than 3%THD, 60 Hz ± 0.05%
- Thermally-controlled cooling fan
- Automatic utility line power bypass when utility line voltage is outside the range of 100 to 130 VAC ± 2 VAC
- Automatic inverter mode dropout when utility line power has been restored above 105 VAC ± 2 VAC for more than 30 seconds
- Lightning surge protection compliant with IEEE 587/ANSI C.62.41
- Completely connectorized system
- LED indication for Inverter Power, Low Battery, High Temp, & Overload
- LED for Battery Charger On & Full plus Check Batteries
- LED Battery Voltage Indicator & Voltage Test Points
- LED for Relay A (On Batt), Relay B (Low Batt), and Relay C (2 hour Time)
- Two terminal blocks provide access to BBS Form C dry relay contacts
- Low Batt voltage threshold (Relay B) is adjustable
- Inverter Run Time Meter w/reset
- Inverter Event Counter Meter w/reset

Unit Protection:

- Automatic electronic short circuit/overload protection
- Automatic over temperature shutdown
- Input and Output circuit breakers
- UL LISTED Power Supply (BBS) for use with Traffic Signal Equipment. File: QQIJ, E218390

Communication:

- RS232 Communications port provides local programming, BBS status, and download of event buffer via a Windows based PC.

Battery Protection:




- Automatic low battery shutdown at 21 or 42 VDC
- Remote temperature sense cable
- Temperature compensated battery charging system – shuts off over 50°C (122°F)

Warranty:

- **Five years**, first three years with **Advance Replacement Program**

GENERAL SPECIFICATIONS	24 Volt, 1100W Series	48 Volt, 1700W Series
Output Power (Watts continuous)	1,100 @ 25°C, 700 @ 74°C	1,700 @ 25°C, 1,000 @ 74°C
Output Voltage	120 VAC regulated	120 VAC regulated
Output Frequency	60 Hz ± 0.05%	60 Hz ± 0.05%
Output Current (Amps AC)	Up to 9	Up to 14
Peak Output (Amps AC)	37	53
Input Voltage	21 to 28 VDC	44 to 56 VDC
Input Current (Amps DC)	Up to 55	Up to 45
Efficiency (Inverter)	Up to 85%	Up to 85%
Operating Temperature	-37°C to 74°C (-35°F to 165°F)	-37°C to 74°C (-35°F to 165°F)
Transfer Time (milliseconds)	40 typical	40 typical
BATTERY CHARGER		
Output Voltage (Volts DC)	Regulated and temp. compensated	Regulated and temp. compensated
Output Current (Amps DC)	Up to 13	Up to 13
Input Current (Amps AC)	Up to 7	Up to 10
Charge Time	Less than 10 hours	Less than 10 hours

CASES AND MODEL #'S

"Y" CASE (wires in back)	"M" CASE (wires in front)	"J" CASE (for inside NEMA)
		
16½"W x 12"D x 6"H	16½"W x 12"D x 6"H	12½"W x 13"D x 8"H
42 Lbs.	42 Lbs.	41 Lbs.
Model #'s	Model #'s	Model #'s
ADI-24Y11 (24VDC, 1100 Watts)	ADI-24M11 (24VDC, 1100 Watts)	ADI-24J11 (24VDC, 1100 Watts)
ADI-48Y17 (48VDC, 1700 Watts)	ADI-48M17 (48VDC, 1700 Watts)	ADI-48J17 (48VDC, 1700 Watts)

Specifications are subject to change without notice.

Form 130977 06/15/09