Will Your Traffic Lights Stay On When The Power Goes Out? Be assured with Dimensions. Battery Backup Systems



DIMENSIONS

Sensata Technologies manufactures Dimensions™ Battery Backup Systems. Dimensions™ Battery Backup Systems are designed to provide reliable power to your traffic signal intersections, ITS cabinets, communication nodes and other equipment. Through thunderstorms, blown transformers, downed power lines or other interruptions, our Battery Backup Systems will keep your equipment running for hours.



The Dimensions "W" Series Battery Backup System

We used the rugged and reliable design of our previous model and added the features that you have been asking for . . . plus many more



Our "W" Series makes it even easier to get status information and to configure. We added a bright and easy to read LCD display. The most commonly requested status information is readily available on just two screens. Navigating the menu system is a breeze with our logical format.

Web Browser Interface

Configure and acquire status information by using your favorite web browser. Drop down menus and a logical layout makes it easy. The BBS also generates Email notifications.

Location:	11200-00	and the second second	-	and the second	-		
Modet Sat	Ver v0	16.4.17	Date: 03	103/09 Time: 14:33	ж		
Narms Faults Rela	ale.			No Faults or Alarms			
Carrier Carrier	Config	uration		atem Fra	Locard .		
CARDINE.	Conting	at a tront		C.I.I.	cogour		
Save Changes	Undo	Reset) Defaults				
Event L	og	S	ell Test Re	eport Cor	figuration		
Taska Tropon	(Case)	1.00	el capor	(Cest)	Export		
Bat	ttery Type	AGM 😁			Outages	74	reset
Battery Size Range		79 -			Run Time	0.13	reset
Battery	Quantity	4 9				100	Low Cutoff (100 in two)
Sense Type		Buck/Boost 💌		Transfer Points,	105	Low Heturn	
Line Qualify Time		30	1-60, (30 is typical)		AC volts	130	High Cutoff (130 is typ.)
Low Battery Relay %		40 💌		0-100% (40% is typical)		125	Fligh Return
Tie	mer Relay	120 0-480, (120 is typical)			95	Low Cutoff (95 is tip.)	
Time of	Day Time	00.00		Start HH MM (24 Hour)	Transfer Points,	100	Low Return
and a buy this		06:00		End HHMMI (24 Hour)	Generator	134	High Cutoff (134 is typ.)
Time of De	ay Enable	Disabled Y		129		High Return	
Fan on Deg. C (External) 25:00			20-55, (25 is typical)	On Battery			
Fan Enable	(External)	Disabled V		Low Battery			
Temp. Ala	rm Deg. C	-10.00		Low		Time of Day	
(Range is -40 to 175 deg. C		50.00 High		Call Central Events	Alarm		
Self Test Start Time		00.00	00.00 Heir MMI (24 Hour)			Fault	
Self Test Days		198	1			BBS Failure	
Self Test Duration (Mins.)		1 14		1-5. (1 is tipical)	Call Caniral Enable	LI Report All	
Self Test Enable		Disabled			Gan Gentral Enable	Children (*	
Self	Test Now	Start No	WY .				



<u>Communications</u> Ethernet and RS-232 are included for remote or local communications. The ethernet IP address is user configurable.

Web Browser Interface



Event Log

The event log keeps track of the most recent 256 events recorded by the BBS. This can be viewed by the LCD, ethernet or RS-232.



Programmable Dry Relay Contacts

These contacts are fully programmable with seven different options. Use these contacts to bring your cabinet to flash and send status information back through your controller.

Time of Day Program

This program saves battery power for when you need it most. If you have a blackout in the middle of the night, it can bring your cabinet to flash immediately to save battery power. If the power is still out when rush hour occurs, the unit will bring the intersection back to full operation.





Buck/Boost for Line Interactive / AVR Operation With Buck/Boost operation, you'll reduce the amount of times that you need to go to backup power. Our wide operating range of 80-160Vac will save battery power for the intersections that are prone to brownouts and over-voltages.

5 YEAR WARRANTY





Features & Specifications

Operation

- Rotatable LCD Display, easy to read, large 4 line by 20 character backlit display
- Scrolling Message which lists Relay Status, Alarms and Faults
- Display shows input and output values including battery % charge
- Quick Status Screens and Buck/Boost Event and Run Time Counters
- Keypad for Local Programming
- Adjustable Transfer Points with Normal and Generator settings
- Six fully Programmable Dry Relay Contacts w/Low Battery, Timer, and others
- Event Log of Events, up to 256 events
- Automatic Low Battery Shutdown

Power

- Buck/Boost (wide 80-160Vac input range)
- Pure Sine Wave Inverter, Less than 3%THD, 60Hz ± 0.05%
- TVSS compliant with ANSI C.62.41.2-2002 (IEEE 587)
- Self Test
- Thermally –controlled cooling fan

<u>Charger</u>

- 4 Step Charger (Zero Volt Start, Bulk, Accept, and Float)
- Temperature Compensated Charging
- Charges AGM or Gel Batteries

5 Year Warranty

Load Management

Communications

- Ethernet (IP is user configurable), generates emails
- Configure and acquire status information by using your favorite web browser
- RS-232

Contact us for a "No Hassle" field trial. Try this unit at your facility with no cost or obligation to buy.

* Caltrans Tested & Approved *					

Now with Rotatable Display

"M" CASE

17.2"W x 10"D x 5.25"H, 32 Lbs.

Model # 24M11-WBE

Model # 48M18-WBF

Web

Browser

Interface



"J" CASE	
13.2"W x 11"D x 7.25"H, 32 Lbs.	
Model # 24J11-WBE	

GENERAL SPECIFICATIONS	24 Volt, 1100W Series	48 Volt, 1800W Series	
Output Power (Watts continuous)	1,100 @ 25°C, 850 @ 74°C	1,800 @ 25°C, 1200 @ 74°C	
Output Voltage (Pure Sine)	120 VAC regulated	120 VAC regulated	
Output Frequency	$60~\text{Hz}\pm0.05\%$	$60~\text{Hz}\pm0.05\%$	
Output Current (Amps AC)	Up to 9.2	Up to 15	
Peak Output (Amps AC)	67	50	
Input Voltage (Volts DC)	21 to 32	41-64	
Input Current (Amps DC)	Up to 55	Up to 42	
Efficiency (Inverter)	Up to 86%	Up to 86%	
Operating Temperature	-40°C to 74°C (-40°F to 165°F)	-40°C to 74°C (-40°F to 165°F)	
Transfer Time (milliseconds)	30 typical	30 typical	
BATTERY CHARGER			
Output Voltage (Volts DC)	Regulated and temp. compensated	Regulated and temp. compensated	
Output Current (Amps DC)	Up to 20	Up to 15	
Input Current (Amps AC)	Up to 5	Up to 7.6	
Charge Time	Less than 10 hours to 80% or greater	Less than 10 hours to 80% or greater	

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