

SPECIFICATIONS:

Available in 120VAC or 347VAC input and 6VDC, 12VDC, or 24VDC output configurations

▪ **User Interface**

Consists of a 16 character Liquid Crystal Display (LCD) to display text messages of current operational status including warning and error messages. Red and green LED's indicate error condition and AC power presence. Two external soft-keypad pushbuttons are used for menu navigation and test initiation. Single pushbutton switch mounted on the circuit board is used to access service menu. When alarm feature enabled, audible alarm can be heard during an error condition.

▪ **Battery Charging**

System uses a microprocessor controlled economical linear type battery charger circuit that precisely controls the charging voltages and currents over a wide range of input line voltage and ambient temperature conditions to maximize battery capacity and battery life expectancy.

▪ **Line Power Failure**

During a line power failure condition the lamps will immediately illuminate. The lamps shall stay illuminated until the battery discharges or the line power exceeds power threshold continuously for a minimum predetermined time.

▪ **Diagnostics**

Microprocessor continuously monitors for the following error and warning conditions. During an error condition, red LED will illuminate, audible alarm will begin 'chirp' sequence if enabled and LCD will display appropriate error message:

- **Battery missing** error condition occurs if no battery voltage is detected.
- **Battery discharged** error condition occurs when battery is discharged. All lamps will automatically turn off if the battery reaches a discharged state and will not be permitted to turn on again until the battery has recharged. This prevents over-discharge or damage to battery.
- **Line fuse failure** error condition occurs if the voltage before line fuse and after fuse fail to meet required values.
- **Lamp 1 & 2 fuse failure** error condition occurs if, during lamp illumination, the lamp voltage after the fuse is less than specified values.
- **Lamp power failure** error condition occurs if, during lamp illumination, the lamp power is less than the calibrated lamp power. The current and calibrated lamp powers are normalized to the nominal battery voltage before comparison.
- **Battery low** warning condition occurs when battery is approaching a discharge state. During a battery low warning condition, the lamps shall 'blink' to indicate the batteries are approaching a discharged state. The duration of a battery low warning condition is dependent on battery current draw, which is dependent on the lamp wattage connected to the system.

▪ **Lamp Power Calibration**

Calibration performed manually via the maintenance menu during installation. See Installation & Operation Manual.

▪ **Manual Test**

Manual test illuminates all lamps. During manual test, lamp power is monitored after an initial delay to allow for the lamp power to stabilize. A single key press, from the high rate or float charges menu will initiate manual test.

▪ **Automated Self-Test**

24-hour lamp power test, 30-day battery test and exercise, and 6-month battery capacity test.

- Displays: Load voltage and current, error/warning messages, test elapse time may also be accessed.
- Tests: Lamp failure detect. Battery connected. Battery capacity. (Battery also discharged on 30 day and 6 month tests)
- Logs: Load on duration in minutes and seconds. Time since last AC fail.

▪ **Cabinet size**

Medium Commercial cabinet	12"(L) x 6.5"(D) x 16.5"(H)	for 6V, 12V(up to 200W output), 24V(up to 200W output)
Large Commercial cabinet	16"(L) x 8"(D) x 16.5"(H)	for 12V(220W to 360W output), 24V(350W to 720W output)

▪ **Display Menus**

Users can access various information and tests via the front panel display using system switches from menu navigation.

TECHNICAL DATA SHEET

SENTRY

SMART Self-Diagnostics System

File: SD0654 Rev. 6 09-08-05

ORDERING GUIDE

Example: **SEN6V180C2M9T-1**

--	--	--	--	--	--	--	--	--

Series	DC Voltage	Capacity (1/2 hour)	Cabinet Type	# of Lamps	Lamp Head Type	Lamp Watt & Source	Options	AC Voltage
SEN	6V	50 (6V)	C : Commercial	0	S : Standard ¹	9T : 9W Tungsten	TB : Terminal Block P : Twist Lock Plug	1 : 120 V
	12V	72 (6V)		1	M : Mini ¹	18T : 18W Tungsten		6 : 347 V
	24V	100 (6/12V)		2	D : Designer ²	8Q : 8W Quartz		
		150 (6/12/24V)		3		12Q : 12W Quartz		
		180 (6V)				20Q : 20W Quartz		
		200 (12/24V)				50Q : 50W Quartz		
		250 (12V)				55Q : 55W Quartz		
		300 (12/24V)				70Q : 70W Quartz		
		350 (24V)				M10 : 10W Medium MR16		
		360 (12V)				W10 : 10W Wide MR16		
		400 (24V)				N20 : 20W Narrow MR16		
		550 (24V)				M20 : 20W Medium MR16		
		720 (24V)				W20 : 20W Wide MR16		
						N35 : 35W Narrow MR16		
				M35 : 35W Medium MR16				
				W35 : 35W Wide MR16				
				N42 : 42W Narrow MR16				
				M42 : 42W Medium MR16				
				W42 : 42W Wide MR16				
				N50 : 50W Narrow MR16				
				M50 : 50W Medium MR16				
				W50 : 50W Wide MR16				

¹ Mini: 6 Volt (9T, 8Q, 12Q); 12 Volt(9T, 8Q, 12Q, 18T, M10, W10, N20, M20, W20, N35, M35, W35) ; 24 Volt(9T, 18T, W20, W35); Standard: 6 Volt (9T, 8Q, 12Q, 20Q); 12 Volt (9T, 8Q, 12Q, 18T, 20Q, 50Q, 55Q); 24 Volt (9T, 18T, 20Q, 50Q, 70Q)

² Designer lamp head uses an MR16 lamp with following wattages: 12V/10W in Medium or Wide; 12V (20W, 35W, 42W, 50W in Narrow, Medium or Wide); 24V (20 W Wide, 35W Wide, 50W Narrow or Wide)

PROJECT: _____

TYPE: _____

CATALOGUE NUMBER: _____