

mcPhilben®

emergency lighting

Job Name: _____

Type: _____

Voltage: _____



CODES AND STANDARDS

UL924 listed
Meets NFPA Life Safety Code 101, NEC,
OSHA, Local and State Codes

VOLTAGE INPUT

Universal 120/277VAC input

FINISH

Heavy gauge steel cabinet in neutral cream finish

CONSTRUCTION

Housing: Heavy duty steel cabinet is finished in neutral cream baked-on powder paint providing scratch and corrosion resistance. Optional black (-B) and special color paint (-SP) finishes available, see Options for ordering details.
Lighting Heads: Impact resistant, UV stable, flame rated thermoplastic lamp housing and swivel assemblies in neutral cream color to match unit housing. Lighting heads are fully adjustable and feature lockable swivels.

LAMPS

High output incandescent lamps maximize illumination characteristics through a specially designed reflector and glass lens assembly that provides glare-free trapezoidal light distribution.
Lamp Type: Incandescent - wedge base
Lamp Rating: 6 volt, 7.2 watts
Lamp Life: 100 hours (expected average)

BATTERY

Standard Battery: Sealed lead calcium maintenance free battery designed to provide many years of dependable service.

INSTALLATION

Mounting: Units are designed for mounting to walls by means of keyhole slots provided in the back of the unit housing. Units may also be mounted by means of accessory wall bracket or mounting shelf.
Wiring: Surface wiring is provided for by conduit knockouts in the left hand side of the unit housing.

OPERATION

Upon failure of the normal utility power, a solid-state transfer switch automatically connects the unit's battery to the emergency lamp. Emergency illumination will be supplied for a minimum of 90 minutes. During emergency operation, the unit battery is protected from severe discharge damage by an automatic low voltage disconnect circuit that discontinues unit operation when battery voltage reaches 87.5% of nominal. When normal utility power is restored, the battery is automatically disconnected from the load and a recharging cycle begins that will return the battery to full capacity within 24 hours.

ELECTRONICS

Charger Type: Fully automatic, temperature compensating, variable rate float charger
Utility Input: 120/277VAC, 60 Hz.

Power Consumption: 15 watts (maximum)
Temperature Range: 32°F to 104°F (0°C to 40°C)
Recharge Duty Cycle: 24 hours
Load Transfer: All models utilize mechanical relays for load transfer and provide fused DC load connections.
Controls: Momentary test switch and LED AC-On indicator light
Safety Circuitry:
AC Lockout: Prevents battery discharge prior to initial unit power-up saving installation time.
Low Voltage Battery Disconnect: Protects the battery from being severely damaged by deep discharge during prolonged power failures.
DC Overload and Short Circuit Protection: Provided by fused output connections.
Brownout Protection: Automatically switches the unit to emergency mode when utility voltage is reduced to the point at which most fluorescent light fixtures would extinguish.

SELF-DIAGNOSTICS

The optional SX self-diagnostics circuit automatically cycles the emergency lighting unit every 25-30 days. The SX circuit checks for battery charging and over charging, battery capacity and reports any system malfunction. By design the SX does not activate the lighting heads, thus avoiding substantial lamp life reduction.

CATALOG NUMBER (Example: NW-6)

Catalog Number	Voltage	Wattage	Lamp Type
Lead Calcium:			
NW-5	6	65	7.2w incandescent
NW-6	6	99	7.2w incandescent
NW-7	6	120	7.2w incandescent
NW-8	6	170	7.2w incandescent

Options		Accessories
Add Suffix	Description	B-1
-V	Voltmeter	Mounting Bracket
-A	Ammeter	Wire Guard
-LC	3-Conductor Line Cord (120V)	900-W-03
-TD-120	15-Minute Re-transfer Time Delay (120V)	Matching Remote Head-Single (6V, 7.2W)
-TD-277	15-Minute Re-transfer Time Delay (277V)	901-W-03
-220	220V, 50Hz Input	Matching Remote Head-Double (6V, 7.2W)
-TCH-120	Thermostatically Controlled Heater (120VAC)	
-TCH-277	Thermostatically Controlled Heater (277VAC)	
-SX	Self-Diagnostic Circuit	
-MH	Metal Lighting Heads	
-B	Black Finish - Housing and Lighting Heads	
-SP	Special Paint Finish - Specify Color	

NW SERIES Industrial Steel Units

SPECIFICATIONS

WARRANTY

Unit: (excluding lamps) 3-years full coverage against defects in materials and workmanship from date of shipment

Battery: 3 years full warranty plus an additional 7 years of pro-rata coverage

SPECIFICATIONS

Model No.	Volts	Watts For 1-1/2 Hrs.	Watts For 2 Hrs.	Watts For 3 Hrs.	Watts For 4 Hrs.	Standard Lamp	Weight (Lbs.)
NW-5	6	65	53	43	36	7.2W incandescent	38
NW-6	6	99	80	65	53	7.2W incandescent	40
NW-7	6	120	100	82	65	7.2W incandescent	50
NW-8	6	170	136	111	89	7.2W incandescent	60

DIMENSIONS

