

mcPhilben Emergency Unit

NC Series Hostile Environment Emergency Unit



Specifier's Reference

Project
Type
Model No.
Comments

application

- The mcPhilben NC series is a 6 volt/12 volt emergency unit for harsh environments.

codes and standards

- UL 924 listed
- UL damp location listed 32°F (0°C) to 104°F (40°C)
- NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
- NSF Standard 2 "Splash Zone"

voltage input

- 120/277 VAC selectable input.

battery

- Maintenance-free sealed lead calcium battery or maintenance free, sealed nickel cadmium battery. The estimated service life is 5-10 year.

housing

- Housing is constructed of impact-resistant, fiberglass reinforced polyester. The housing is gray and includes stainless steel hardware. The view-through window allows easy monitoring of the optional voltmeter and ammeter. The unit shall be UL wet location listed.

advanced self-diagnostics (standard)

- The Advanced Self-Diagnostics charging system is microprocessor controlled with surge protection, brownout, AC lockout and low voltage disconnect features are standard on all models.

self-testing diagnostics (optional)

- Optional diagnostics/charging circuitry perform a self-test monthly, and during the sixth and twelfth months. A one-minute or 90 minute test may be initiated via pushing the test button or using the handheld test device, SRT.

lamp data

- Additional tungsten or halogen sealed beam Par 36 lamp heads available. Optional shatter-resistant lamp heads designed for use in food service areas.

mounting

- Internal mounting capability provides vandal-resistant security and external mounting feet provided.

warranty

- Five year warranty on unit. (Lamps not included).

Green Product Choice: NC6LD25PNA

Operation		Options ²
NC6LD	NC12LD	TA – Audible Self-Testing Diagnostic
25 – 25 Watt	50 – 50 Watt	T – Self-Testing Diagnostics
50 – 50 Watt	75 – 75 Watt	V – Voltmeter
75 – 75 Watt	100 – 100 Watt	A – Ammeter
NC6ND	125 – 125 Watt	TD – Time Delay (15min)
25 – 25 Watt	150 – 150 Watt	P1 – 120 VAC Power Switch
50 – 50 Watt		P2 – 277 VAC Power Switch
75 – 75 Watt		EX – Special Input Transformer (Specify voltage and frequency)
	NC12ND	F1 – 120 VAC Fuse
	50 – 50 Watt	F2 – 277 VAC Fuse
	75 – 75 Watt	S – Shatter-Resistant
	100 – 100 Watt	BD – Battery disconnect switch
	125 – 125 Watt	
	150 – 150 Watt	

Family ¹	Two Lamp Heads
NC6LD – 6 volt, Lead Calcium	BLANK – No heads
NC6ND – 6 volt, Nicad	6 volt Sealed Beam
NC12LD – 12 volt, Lead Calcium	PNA – 8 Watts, Tungsten
NC12ND – 12 volt, Nicad	PNB – 18 Watts, Tungsten
	PNC – 25 Watts, Tungsten
	PNI – 8 Watts, Halogen
	PNJ – 12 Watts, Halogen
	12 volt Sealed Beam
	PNE – 12 Watts, Tungsten
	PNF – 18 Watts, Tungsten
	PNG – 25 Watts, Tungsten
	PNK – 8 Watts, Halogen
	PNL – 12 Watts, Halogen
	PNX – 50 Watts, Halogen
	PNXF – 50 Watts, Halogen Flood

Accessories

- SRT** – Infra Red Remote Tester
- WG** – Wire Guard (100W-150W)
- WG5** – Wire Guard (25W-75W)

Footnotes

- ¹For self-testing feature, see options.
²Some option combinations may impact UL listing. Contact factory for specifics.

Maintenance Free Operation for Hostile Environments

mcPhilben's NC series industrial emergency lighting units are designed for use in hostile environments potentially damaging to internal components.

Electrical Specifications

Input power requirements

6 Volt

25-50W - 0.157A (120VAC), 0.069A (277 VAC)

75W - 0.222A (120VAC), 0.094A (277 VAC)

12 Volt

50-100W - 0.289A (120VAC), 0.135A (277 VAC)

125W - 0.433A (120VAC), 0.188A (277 VAC)

150W - 0.470A (120VAC), 0.203A (277 VAC)

Audible/Non-Audible Diagnostics

Advanced Self-diagnostics is equipped with an audible user interface confirmation standard.

However, the audible diagnostics feature is a selectable option. Standard diagnostics equipment offers visual verification of the equipment readiness through the flashing sequence of the RED LED in the following manner:

Fault condition status, number of RED flashes:

1 X - Battery Fault

2 X - Lamp Failure

3 X - Charger Fault

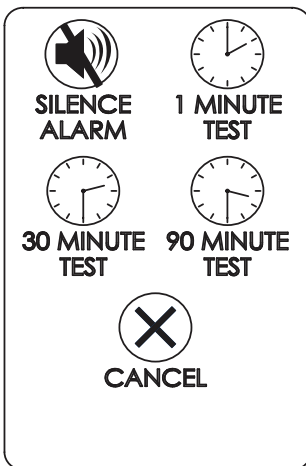
4 X - Transfer Fault

Both RED and GREEN LED's fast toggle - AC line over-voltage

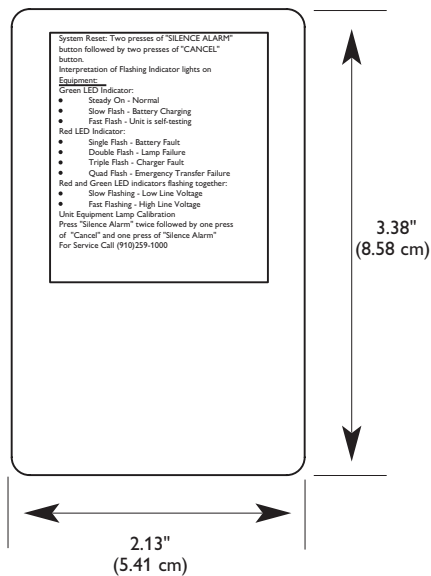
Both RED and GREEN LED's slow toggle - AC line under-voltage

Dimensions

Front

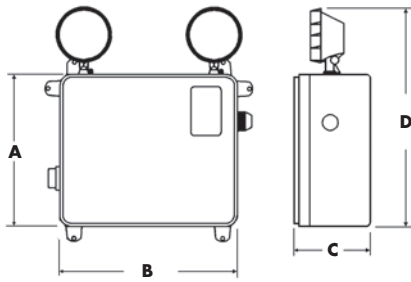


Back



OPERATING TEMPERATURE –
 Standard Location: 65°F (18°C) to 85°F (29°C)
 Damp Location: 32°F (0°C) to 104°F (40°C)

Dimensions



100 Watt to 150 Watt

- A: 15.2" (386.1 mm)
- B: 13.2" (335.3 mm)
- C: 7.3" (185.4 mm)
- D: 21.4" (543.6 mm)

Operation

DC Voltage	Unit	Watts to 87-1/2% of Rated Voltage*			
		1-1/2 hrs.	2 hrs.	4 hrs.	8 hrs.
6	NC6LD25	28	21	13.5	—
	NC6LD50	50	37.5	24	8.5
	NC6LD75	75	56.5	28.5	15
	NC6ND25	25	19	12	—
	NC6ND75	50	37.5	24	8.5
12	NC12LD75	50	37.5	24	8.5
	NC12LD100	100	75	48	17
	NC12LD125	125	94	60	21.5
	NC12LD150	150	112.5	72	25.5
	NC12LD75	50	37.5	24	8.5
	NC12ND100	100	75	48	17
	NC12ND125	125	94	60	21.5
	NC12ND150	150	112.5	72	25.5

Additional Features

Battery – Maintenance-free, sealed lead calcium battery maintenance-free, sealed nickel cadmium battery. Batteries supply 90 minutes of emergency power. The estimated service life is 5-10 years. Operating temperature range of 32°F (0°C) to 104°F (40°C).

Warranty – Five year warranty on units. (Lamps not included)

Electronics – The Advanced Self-diagnostic charging system is microprocessor controlled with surge protection, brownout, AC lockout and low voltage disconnect features and is standard on all models.

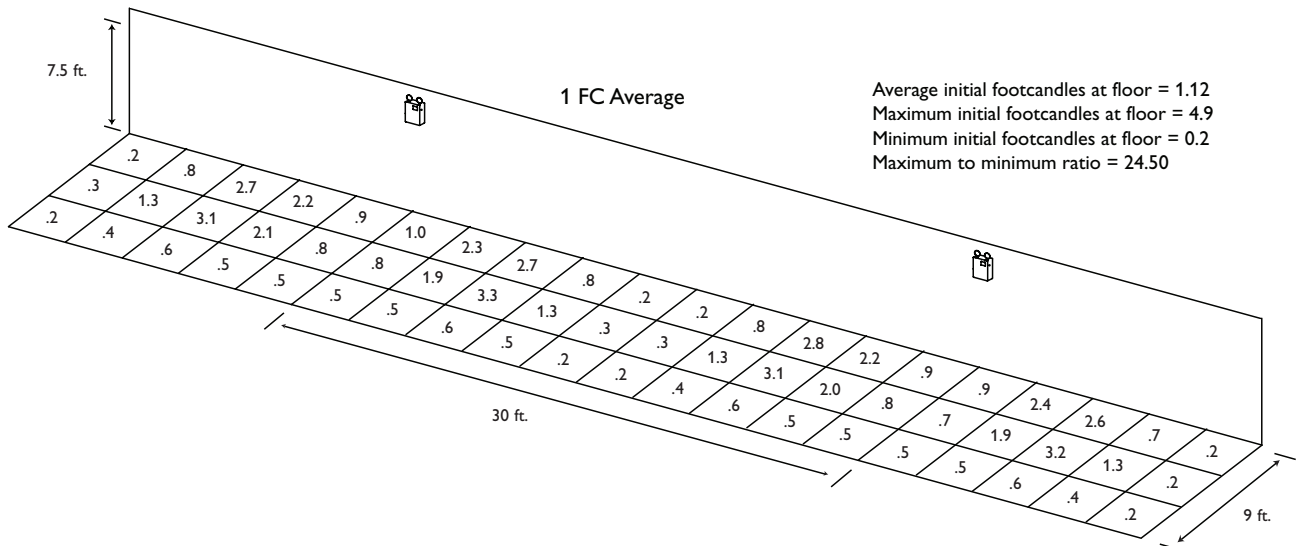
Self Testing Diagnostics – Optional diagnostic/charging circuitry performs a self-test monthly, and during the sixth and twelfth months. A one-minute or 90-minute test may be initiated via pushing the test button or using the handheld test device, SRT.

Remote Capacity:

All units are capable of operating remote lamp heads, assuming excess wattage is available. (Example NC12LD100PNG - 50 watts Remote Capacity).

Optics* (IES formatted files are available on-line)

Wall mounted 7.5' AFF, 12V 12W Halogen Lamp Heads Represented (PNL)






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Contact Factory for Additional Configurations.
Specifications are subject to change without notice.
Consult website for latest version of this spec sheet.

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org