mcPhilben®
emergency lighting

Job Name: _____

Type: _____

Voltage: _____

NC SERIES NEMA Rated Emergency Unit (4, 4x, 12 & 13 Areas)

CODES AND STANDARDS
UL Listed to Standard 924
NFPA 70
NFPA 101
NEC
BOCA
OSHA
IBC illumination standards
NSF Standard 2 "Splash Zone"

VOLTAGE INPUT
120/277 VAC selectable input.

FINISH
Gray housing with stainless steel hardware.

HOUSING
Housing approved for NEMA 4, 4X, 12 and 13 areas. Constructed of corrosion-resistant materials, featuring fiberglass reinforced industrial polyester gray housing with stainless steel hardware. View through window allows easy monitoring of AC indicator.

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.

LAMP HEADS
NC Series units are equipped with sealed beam lamps available in tungsten or halogen styles. The specifier is able to select from 8–30 watts of light output. Lamps are housed in a corrosion and impact resistant Lexan® 500 polycarbonate housing.

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

BATTERY
Maintenance-free, sealed lead calcium, sealed nickel cadmium and pure lead batteries available. Lead calcium and pure lead batteries feature voltage regulated, current limited solid-state charger. Nickel cadmium batteries use constant current, solid-state charger.

CATALOG NUMBER (Example: NC6L28 PNA)

FAMILY

NC6L – 6 volt, Lead Calcium
NC6N – 6 volt, Nicad
NC12L – 12 volt, Lead Calcium
NC12N – 12 volt, Nicad
NC12P – 12 volt, Pure Lead[1]

OPERATION

NC6L
28 – 28watt
50 – 50watt
75 – 75watt
100 – 100watt

NC6N
25 – 25watt
50 – 50watt

NC12L
50 – 50watt
100 – 100watt
125 – 125watt
150 – 150watt
180 – 180watt

NC12N
50 – 50watt
75 – 75watt
100 – 100watt
125 – 125watt
150 – 150watt

NC12P
120 – 120watt

LAMP HEADS

BLANK – No heads

6 volt Tungsten
PNA – 8watts
PNB – 18watts
PNC – 25watts
PND – 30watts

6 volt Halogen
PNM – 6watts
PNI – 8watts
PNJ – 12watts

12 volt Tungsten
PNE – 12watts
PNF – 18watts
PNG – 25watts
PNH – 30watts

12 volt Halogen
PNK – 8watts
PNL – 12watts

OPTIONS[2]

SD – Self-Diagnostic
SDA – Self-Diagnostic With Audible Alarm
SDTD – Self-Diagnostic with Time Delay (15 min.)
V – Voltmeter (not available with SD or SDA)
A – Ammeter (not available with SD or SDA)
TD1 – 120 VAC Time Delay (15 min)
TD2 – 277 VAC Time Delay (15 min)

DCS – DC Power ON/OFF Switch
PS1 – 120 VAC Power Switch
PS2 – 277 VAC Power Switch
EX – Special Input Transformer††
F1 – 120 VAC Fuse
F2 – 277 VAC Fuse
S – Shatter-Resistant
HTR1 – 120 VAC Heater[2]
HTR2 – 277 VAC Heater[2]
††Specify voltage & frequency

Footnotes:
[1] Not available with SD, SDA or SPTD options.
[2] Some option combinations may imact UL listing. Consult factory.

ACCESSORIES (ordered separately)

Wire Guards refer to Spec Sheet ERA6050.4.

eri**4012.4**

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NC SERIES NEMA Rated Emergency Unit (4, 4x, 12 & 13 Areas)

MAINTENANCE-FREE OPERATION FOR HOSTILE ENVIRONMENTS

mcPhilben's NEMA series industrial emergency lighting units are designed for use in hostile environments potentially damaging to internal components. All enclosures meet the requirements of the following classifications.

NEMA 4 – Protect enclosed equipment against all types of water entry.
NEMA 4X – Same as NEMA 4 with addition of corrosion resistance.
NEMA 12 – Protect enclosed equipment against entry of fibers, dirt and dust.
NEMA 13 – Provides a degree of protection against lint, dust seepage, external condensation, and spraying of water, oil and non-corrosive liquids.

PROTECTIVE FEATURES

Cabinets
NC Series units utilize the highly regarded Stahlin® compression molded enclosure. The cabinet is constructed of special fiberglass reinforced polyester resins that are chemically resistant to a wide range of corrosive materials. The cabinet door features a one piece, molded, nonremovable, urethane, formed-in-place gasket. Two stainless steel screws and hinge pins secure the door to the cabinet. All units are supplied with a UL listed cord sealing grip for power connections.

Venting
Battery gasses, which normally evolve during recharge are permitted to escape the enclosure by means of a non-mechanical breather device.

MAINTENANCE-FREE BATTERY SELECTION

Sealed Lead Calcium Recombination Battery (6v28w, 50w, 75w, 100w) (12v50w, 100w, 125w, 150w, 180w)
This battery type operates on the principle of electrolyte recombination. Gasses which normally form during the recharge operation are captured and recombined to form water. The amount of electrolyte remains constant during the battery's life. The sealed construction eliminates acid spills, electrolyte refills and cell dryout. Operating temperature: 65°F (19°C) to 85°F (30°C).

Nickel Cadmium (6v25w, 50w) (12v50w, 75w, 100w, 125w, 150w)
Sealed, maintenance-free nickel cadmium batteries with high temperature sintered plate construction and polypropylene separators provide trouble-free operation. Operating temperature: 20°F (-7°C) to 95°F (55°C).

Pure Lead (12v120w)
This completely sealed rechargeable, maintenance-free battery consists of pure lead plates coiled around electrolyte saturated separators encased in cylindrical steel jackets. The use of unalloyed lead would in this manner permits operation in high ambient temperatures without seriously reducing battery life.

Available Wattages/Battery		25	28	50	70	75	100	120	125	150	180
6 volt	Lead		•	•		•1	•1				
	NiCd	•		•							
12 volt	Lead			•			•		•	•	•
	NiCd			•1		•	•		•	•	
	Pure Lead							•			
1=Utilizes the TC Charger											

Lamp Head Selector		8w	12w	18w	25w	30w
6 volt	Tungsten	PNA		PNB	PNC	PND
	Halogen	PNI	PNJ			
12 volt	Tungsten		PNE	PNF	PNG	PNH
	Halogen	PNK	PNL			

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

ELECTRICAL SPECIFICATIONS

Input Power Requirements:
120 VAC - 0.42 amps (max), 50.4 watts
277 VAC - 0.20 amps, 50.4 watts

SELF-DIAGNOSTIC

The Self-Diagnostics option conducts automatic and manual tests, and indicates real time status of the lamp, battery and charger via LED indicator lamps. Automatic tests include: systems analysis every 10 seconds, with actual load tests performed for a 3 minute duration every 30 days. A manual test is available from 10 to 90 minutes.

BATTERY CHARGERS

Batteries supply minimum of 90 minutes of emergency power. Recharging to rated capacity is accomplished in accordance with UL 924. Lead Acid battery units are equipped with a fully automatic, voltage regulated, current limited, solid state charger. Initially the charger provides a high charge rate upon restoration of AC power. When proper float voltage is attained, the charger provides a trickle charge to maintain batteries at full capacity. Nickel cadmium battery units utilize a constant current, solid state charging circuit.

T.C. CHARGER

This charger is used with select Lead Acid and nickel cadmium battery units to assure proper charging in variable ambient temperatures. As ambient temperature increases or decreases, the charger will compensate and provide correct float voltage, assuring proper charging.

OPTIONS

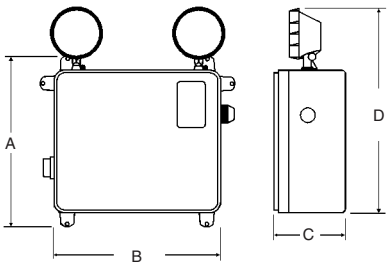
NC Series units incorporate a flush, view-through window for inspecting the optional voltmeter and ammeter. A 15 minute time delay feature, internal heater (lead units), AC fuse, and AC or DC service switch options are also available. An internal heating option is available and should be used in environments that sustain 42°F temperature.

WARRANTY

Five year warranty on unit from date of purchase (Lamps not included).

Lexan® is a registered trademark of the General Electric Company.
*Stahlin® is a registered trademark of the Robroy Corp.

DIMENSIONS



25 WATT TO 75 WATT
A: 14.4" (36.6 cm)
B: 11.2" (28.5 cm)
C: 6.6" (16.7 cm)
D: 19.4" (49.4 cm)

100 WATT TO 180 WATT
A: 16.4" (41.7 cm)
B: 13.2" (33.6 cm)
C: 7.1" (18.0 cm)
D: 21.4" (54.4 cm)

OPERATION

DC Voltage	Unit	Watts to 87-1/2% of Rated Voltage*			
		1-1/2 hrs.	2 hrs.	4 hrs.	8 hrs.
6	NC6L28	28	21	13.5	—
	NC6L50	50	37.5	24	8.5
	NC6L100	100	75	48	17
	NC6N25	25	19	12	—
	NC6N50	50	37.5	24	8.5
12	NC12L50	50	37.5	24	8.5
	NC12L100	100	75	48	17
	NC12L125	125	94	60	21.5
	NC12L150	150	112.5	72	25.5
	NC12L180	180	135	86.5	31
	NC12N50	50	37.5	24	8.5
	NC12N100	100	75	48	17
	NC12N125	125	94	60	21.5
	NC12N150	150	112.5	72	25.5
	NC12P120	120	90	58	20

* Per NEC Specifications

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PHILIPS