

Optima Unit 6, 12 & 24V Dust-tight Battery Unit

Job/Location: _____

Contractor: _____ Prepared By: _____

Model Number: _____ Date: _____

6, 12 or 24V up to 360W

Fully gasketed 20 gauge steel housing

High-efficiency two stage charger



NEMA 4X SEA MR16 heads are standard

Hinged front access for easy installation



EXTERNAL SPECIFICATIONS

The **OPTIMA** series are constructed with a NEMA12 fully gasketed 20 gauge steel cabinet. NEMA 4X SEA emergency lighting heads are die-cast aluminum and gasketed for protection against moisture and dust. Four [4] integrated mounting holes ensure simple and secure installation. External test switch and monitor LED are standard. Industrial grey powder coat finish is standard. CSA 22.2 No. 141-15 Performance Certified.

INSTALLATION

The **OPTIMA** unit is suitable for surface wall mounting.

MECHANICAL SPECIFICATIONS

The front access panel/door is hinged for trouble-free installation and maintenance. Four [4] integrated mounting holes ensure simple, secure and accurate wall installation. Remote lamp loads are connected to the emergency power supply with sturdy terminal connectors. These connectors allow for a large gauge of wire to be used increasing the flexibility of installation. MR16 NEMA 4X SEA heads are constructed of die-cast aluminum that has been sealed against moisture and dust infiltration. The **OPTIMA** is supplied standard in an industrial grey power coat paint finish.

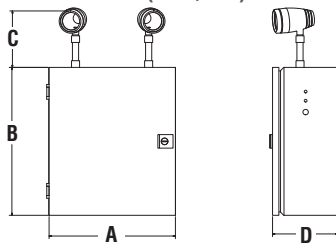
ORDERING INFORMATION

Series	Operation	Capacity (Wattage)	Heads	Lamp Type	Options
LDT	6 (Volt DC)	See model rating guide	0 (None)	*See lamp guide	NC (Ni-Cd batteries, see guide)
	12 (Volt DC)		1SEA (one MR16 head)		AT (Auto-test self-diagnostics)
	24 (Volt DC)		2SEA (two MR16 heads)		A (Ampmeter)
			1TESSQ (One head, HO)		V (Voltmeter)
			2TESSQ (Two heads, HO)		LD (Lamp disconnect - internal)
			**1LR (One head)		*TD (10 min. time delay)
			**2LR (Two heads)		WG (Wireguard)
					***TC (Teflon® coated lamp lens)
					TLP (Twist lock plug, 120V only)
					*HTR (Internal heater)
					LC (120V line cord)
					HT (High operating temperature)

NOTE: *AC input must be specified. **Heads are supplied standard weatherproof ***Teflon® is a registered trademark of DuPont™.

EXAMPLE: LDT-12-150-2SEA-7WLED DESCRIPTION: LDT emergency only battery unit, 120/347AC Input, 12VDC Output, 150W for 30 minutes 2 x 9W lamps, 2 NEMA 4X SEA heads, voltmeter.

DIMENSIONS (MM, IN.)



Cabinet	A	B	C	D
#1	356mm 14"	305mm 12"	152mm 6"	152mm 6"
#2	305mm 12"	254mm 10"	127mm 5"	152mm 6"

LAMP SELECTION

	6V	12V	24V
Composite Tungsten	7.2, 9W	9, 12, 18W	9, 18 (25W, PAR36 only)
Composite Quartz (Q)	6, 8, 10, 12W	12, 20 (55W PAR36 only)	N/A
LED-MR16	5, 7W	2, 5, 7W	5, 7W
MR16	N/A	20, 35, 50W	N/A
TES	N/A	5, 9, 14, 30W	5, 9, 14, 30W
Sealed Beam (PAR36 only)	N/A	6W	6W

CHARGER SPECIFICATIONS

The **OPTIMA** series utilizes a high-efficiency two stage charger providing precise float voltage control with low voltage disconnect protection. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic LED display which indicates AC/ON and High Charge. An external push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load.

LAMP HEAD FEATURES

The **OPTIMA** series units are supplied with two [2] top mounted NEMA 4X SEA heads when specified. Standard lamp heads are constructed die-cast aluminum in a grey colour. The SEA heads have a flexible neck for precise aiming and a Teflon® coated lens for additional protection against breakage.

MODEL RATING GUIDE

Model	Voltage (output)	Wattage Rating 30 mins.	120 mins.	Cabinet
LDT-6-36	6	36	10	#2
LDT-6-50	6	50	15	#2
LDT-6-50-NC	6	50	18	#2
LDT-6-80	6	80	24	#2
LDT-6-90	6	90	27	#2
LDT-6-100-NC	6	100	35	#2
LDT-6-160	6	160	48	#2
LDT-6-180-NC	6	180	60	#2
LDT-12-36	12	36	10	#2
LDT-12-72	12	72	22	#2
LDT-12-90	12	90	27	#2
LDT-12-100-NC	12	100	35	#2
LDT-12-120	12	120	36	#2
LDT-12-150	12	150	45	#2
LDT-12-180	12	180	54	#2
LDT-12-200	12	200	60	#1
LDT-12-200-NC	12	200	65	#1
LDT-12-250	12	250	75	#1
LDT-12-360	12	360	108	#1
LDT-24-144	24	144	43	#2
LDT-24-180	24	180	54	#2
LDT-24-200-NC	24	200	65	#2
LDT-24-320	24	320	96	#1

BATTERY TECHNOLOGY

The **OPTIMA** series is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 30 minutes (for the listed rating). Recharge time of the battery is twenty-four [4] hours. The maximum battery operating temperature is +40°C and the minimum is +10°C.

BEGHELLI AUTO-TEST (AT)

The Beghelli auto-test system automatically performs one 5 minute discharge test monthly and every 6 months it performs two 30 minute discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability, as required by the fire code. The information is communicated simply and intuitively to maintenance personnel via a single multi-colour LED.