

# 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



Weather proof PAR36 heads are standard

Hinged front access for easy installation

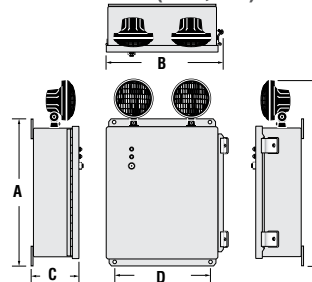
## EXTERNAL SPECIFICATIONS

The **OPTIMA** series are constructed with a NEMA12 fully gasketed 20 gauge steel cabinet. Weatherproof emergency lighting heads are available in PAR36 (LR) style molded from black, high impact thermoplastic. 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.

## INSTALLATION

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

## DIMENSIONS (MM, IN.)



Cabinet	A	B	C	D	E
#1	356mm 14"	305mm 12"	152mm 6"	229mm 9"	457mm 18"
#2	305mm 12"	254mm 10"	127mm 5"	179mm 7"	406mm 16"

## ORDERING INFORMATION

Series	Operation	Capacity (Wattage)	Heads	Lamp Type	Options
LDT	6 (Volt DC)	See model rating guide	0 (None)	See lamp selection guide above	NC (Ni-Cd batteries, see guide)
	12 (Volt DC)		**1LR (One head)		AT (Auto-test self-diagnostics)
	24 (Volt DC)		**2LR (Two heads)		A (Ampmeter)
			1RBSB (Rubber - one head sealed beam)		V (Voltmeter)
			2RBSB (Rubber - two head sealed beam)		LD (Lamp disconnect - internal)
			1AR (One aluminum head)		*TD (Time delay - specify 5, 10, 20 mins)
			2AR (Two aluminum heads)		WG (Wireguard)
					***TC (Teflon® coated lamp lens)
					TLP (Twist lock plug, 120V only)
					*HTR (Internal heater)

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

EXAMPLE: LDT-12-150-2LR-9W-V

DESCRIPTION: LDT emergency only battery unit, 120/347AC Input, 12VDC Output, 150W for 30 minutes 2 x 9W lamps, 2 x PAR36 weatherproof heads, voltmeter.



**LAMP SELECTION (ONLY LR PAR36 STYLE HEAD AVAILABLE)**

	6V	12V	24V
Composite Tungsten	9, 12, 20W	9, 12, 18W	9, 18W
Composite Quartz (Q)	8, 10, 12, 20W	8, 12, 20, 35, 55W	10, 12, 20, 50W (70W AR only)
Sealed Beam Tungsten (SB)	8, 12, 18, 20, 25, 30W	12, 18, 25, 30, 35W	N/A
Sealed Beam Quartz (QSB)	8, 12, 20W	8, 12, 30W	N/A

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**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. The **OPTIMA** is supplied standard in an industrial grey fiberglass finish.

**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 weatherproof PAR36 large style heads when specified. Standard lamp heads are constructed of high impact thermoplastic in a black colour. The PAR36 large style head features a unique locking twist collar that securely holds the lens and facilitates quick and easy re-lamping. Optional black all rubber heads are also available with sealed beam lamps only. \*Teflon® coating of the lamp lens (which inhibits shattering) is available for food preparation areas.

**MODEL RATING GUIDE**

Model	Voltage (output)	Wattage Rating 30 mins.	Cabinet
LDT-6-36	6	36	#2
LDT-6-50	6	50	#2
LDT-6-50-NC	6	50	#2
LDT-6-80	6	80	#2
LDT-6-90	6	90	#2
LDT-6-100-NC	6	100	#2
LDT-6-160	6	160	#2
LDT-6-180-NC	6	180	#2
LDT-12-36	12	36	#2
LDT-12-50	12	50	#2
LDT-12-72	12	72	#2
LDT-12-90	12	90	#2
LDT-12-100-NC	12	100	#2
LDT-12-120	12	120	#2
LDT-12-150	12	150	#2
LDT-12-180	12	180	#2
LDT-12-200	12	200	#1
LDT-12-200-NC	12	200	#1
LDT-12-250	12	250	#1
LDT-12-360	12	360	#1
LDT-24-144	24	144	#2
LDT-24-180	24	180	#2
LDT-24-200-NC	24	200	#2
LDT-24-320	24	320	#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). Ni-Cd 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.