

Job/Location: \_\_\_\_\_  
 Contractor: \_\_\_\_\_  
 Prepared By: \_\_\_\_\_

Job Type: \_\_\_\_\_  
 Date: \_\_\_\_\_

■ The **HDT** series of industrial emergency lighting units are designed to be durable, dependable and easy to install.

**Housing:** The fully gasketed NEMA 4X rated PVC housing can be used in most damp, wet and hose down areas.



Traditional top mounted (LR) PAR36 style heads are standard.

Bottom hinge for easy installation and convenient maintenance.

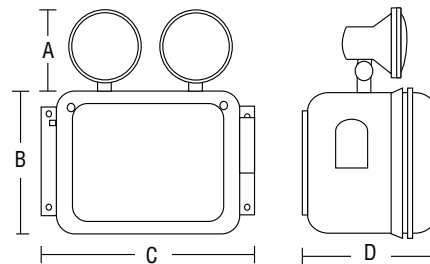
### ■ specifications: internal

The **HDT** is configured with 120/277VAC input with solid state charging circuitry. Standard features include low voltage disconnect, AC lockout and brownout protection.

### ■ specifications: external

The **HDT** is constructed with a durable NEMA 4X rated PVC cabinet. Industrial gray finish is standard. Emergency lighting heads are molded from high impact thermoplastic, (LR) PAR36 style heads are standard. Integrated mounting feet ensure proper and secure installation. The front access panel is hinged to allow for trouble free installation and maintenance. External test switch and monitor LED are standard.

### ■ dimensions (in,mm.)



Cabinet	A	B	C	D
A	10" 254mm	8" 203mm	10" 254mm	5" 127mm
B	12" 305mm	8" 203mm	12" 305mm	6" 152mm

### ■ ordering logic

Series	Operation	Pb-A (Capacity)	Ni-Cd <sup>1</sup> (Capacity)	Emergency Heads	Lamps	Options
HDT	6V	27 (6V)	22 (6V)	0 (no heads)	See lamp selection	AT (autotest)
		36 (6V, 12V)	42 (6V, 12V)	2LR (double PAR36)	the next page	AM (ammeter)
	12V	60 (6V, 12V)	54 (6V)	1LR (single PAR36)		CS120 (cord set, 120 only)
		72 (6V, 12V)	90 (6V, 12V)	1SEA (one MR16 head)		FAI <sup>1</sup> (fire alarm interface)
		100 (6V)		2SEA (two MR16 heads)		FP (food prep lens)
		120 (6V, 12V)				IH (voltmeter/internal heater)
					IRT <sup>2</sup> (infrared testing)	
						NC <sup>3</sup> (nickel-cadmium battery)
						TD <sup>4</sup> (time delay specify 5, 10, 15 min.)
						TP (tamper proof screws)
						VM (voltmeter)

NOTE 1 : Specify type- open/closed dry contact.  
 NOTE 2: HHC (controller for IRT) should be ordered separately (item code:476000021).  
 NOTE 3: Must select NC from options and indicate wattage/voltage from Ni-Cd column.  
 NOTE 4: Must specify at time of order. Specify voltage.

EXAMPLE: HDT-12-90-2LR-35W(H)  
 DESCRIPTION: HDT, 12V, 90W, double PAR36, 35W halogen lamps

## ■ emergency heads

The **HDT** is normally supplied with two (2) top mounted (LR) PAR36 style 9w heads. Lamp head styles are constructed of high impact thermoplastic. Please note: (LR) PAR36 style food-prep approved lenses are also available when ordering.

## ■ specifications: electrical

**BATTERY:** The **HDT** is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 90 minutes (for the listed rating). Recharge time of the battery is less than 48 hours. The battery operating temperature is 50°F to 104°F (10°C to 40°C). Nickel Cadmium batteries are available as an option. With heater option added to **HDT**, the IH temperature range can go from -4°F to 113°F (-20°C to 45°C).

**CIRCUIT:** The **HDT** utilizes a pulse switching charger that is up to 70% more efficient than older constant voltage chargers. The charger is a fully automatic current limited charger with solid state line-latched 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.

## ■ specifications: mechanical

The **HDT** is constructed from a durable, fully gasketed NEMA 4X rated PVC housing. The front access panel is hinged for trouble-free installation and maintenance. Four integrated mounting feet ensure proper, secure and accurate wall or ceiling installation on to most surfaces. The **HDT** is supplied standard in an industrial gray PVC finish. External test switch and monitor LED standard.

## ■ autotest

The **HDT** Autotest feature automatically monitors the functional operation of the unit. Autotest monitors the operation of the lamps, battery and circuitry and displays any alerts. Periodic emergency tests, up to ninety (90) minutes duration are simulated to ensure proper operation during an actual power failure. Operating status is visually indicated by multi-function LED indication.

- Red: Battery or Circuit Malfunction
- Yellow: Lamp Malfunctioning
- Green: Normal Operation

## ■ lamp selection

	6V	12V
Incandescent	5.4, 7.2, 9W	9, 12, 18W
Halogen (H)	10, 12, 20W	12, 20, 35W 55W (PAR36 only)
MR16	6, 10W	10, 12, 20W, 35, 50W
MR16 LED	5, 7W	2, 5, 7W
TES	N/A	30W

## ■ model rating guide

Model	Voltage	Wattage			
		90min	120min	180min	240min
HDT-6-22	6	22	17	11	9
HDT-6-27	6	27	20	13	10
HDT-6-36	6	36	27	18	14
HDT-6-42	6	42	31	21	15
HDT-6-54	6	54	41	27	20
HDT-6-60	6	60	45	30	22
HDT-6-72	6	72	54	36	27
HDT-6-90	6	90	67	45	33
HDT-6-100	6	100	75	50	38
HDT-6-120	6	120	90	60	45
HDT-12-36	12	36	27	18	13
HDT-12-42	12	42	31	21	15
HDT-12-60	12	60	45	30	22
HDT-12-72	12	72	54	36	27
HDT-12-90	12	90	67	45	33
HDT-12-120	12	120	90	60	45

NOTE: Cabinet size may change based on configurations.

## ■ warranty

The **HDT** comes with a 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.