

SEQUOIA LIGHTING CORPORATION



SERIES 6.6 AMP STARTING AID

FOR HIGH PRESSURE SODIUM LAMPS

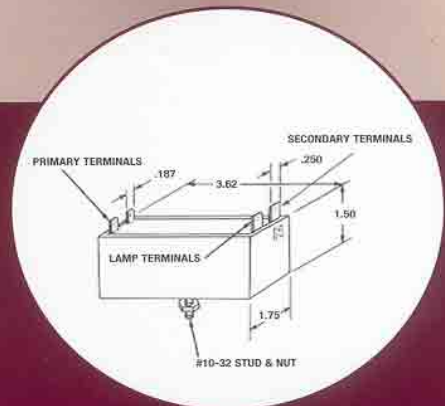
- STARTING AID IS DESIGNED FOR MOUNTING INSIDE LUMINAIRE.
- IT IS EPOXY ENCAPSULATED TO PROTECT COMPONENTS.
- SINGLE SCREW MOUNTING.
- NEMA TERMINALS USED FOR PRIMARY AND SECONDARY CONNECTIONS.

SYSTEM DESIGN

STANDARD STARTERS FOR SERIES CIRCUITS ARE DESIGNED FOR USE WHEN THE EXISTING OR NEW CIRCUIT LOAD IS WELL WITHIN THE SYSTEM CAPACITY. WHEN THE POSSIBILITY OF CIRCUIT OVERLOADING EXISTS, THE LOW LOAD STARTER SHOULD BE USED. THE LOW LOAD STARTER WILL ALLOW MORE LAMPS OR LARGER LAMPS TO BE INSTALLED ON A GIVEN CIRCUIT.

EXAMPLE

AN EXISTING LIGHTING CIRCUIT HAS 37 400WATT MERCURY VAPOR LIGHTS. THE CONSTANT CURRENT TRANSFORMER SERVING THIS CIRCUIT IS RATED AT 25 KW. BELOW ARE SHOWN SEVERAL OPTIONS WHEN CONVERTING TO HIGH PRESSURE SODIUM LAMPS:



All series starters same size.
Mounting bracket must be requested.
Weight: 11 oz.

LAMP	STANDARD STARTER	LOW LOAD STARTER
55-Volt Lamp	STS-5	STS-5X
100-Volt Lamp	STS-10	STS-10X

CASE	STARTER TYPE	LAMP TYPE	LAMP WATTS	LAMP LUMENS	POWER USAGE KW	CIRCUIT STATUS
1. Existing System	---	MV	400	20,000	37 x .65 = 24.05	OK
2. Convert to 200 W HPS	Standard	HPS	200	19,800	37 x .75 = 27.75	Overloaded
3. Convert to 200 W HPS	Low Load	HPS	200	19,800	37 x .52 = 19.24	OK
4. Convert to 250 W HPS	Low Load	HPS	250	24,700	37 x .75 = 27.75	Overloaded

*Lamp loading factor x number of lamps. Refer to table on ballast line card.

In this example, preferred design would be to convert the existing 400 watt mercury vapor lamps to 200 watt high pressure sodium lamps, using the low load starter.