

FUTEK

THE ENERGY SAVERS

خبراء ترشيد الطاقة

Digital HID Dimmable Electronic Ballast



Energy

100%
90%
75%
50%

كابح مغناطيسي

كابح إلكتروني (عادي)

فيوتك إلكتروني
(مبرمج)

Dimmable

يحقق المعادلة الصعبة = إضاءة أقوى مع استهلاك أقل

SAVE 50% FROM STREET CONSUMED ENERGY

توفير 50% من الطاقة المستهلكة في إضاءة الشوارع

- * إضاءة ثابتة لا تتأثر بارتفاع أو انخفاض الجهد الكهربائي عن المدى المقتن
- * معامل قدرة أعلى من 99%
- * بداية هادئة عند الإقلاع 10 مرات أقل من الكابح المغناطيسي
- * يطيل عمر تشغيل اللامبات
- * خفيف الوزن ولا يحتاج إلى صيانة
- * إضاءة بدون رعشة لا تجهد العين
- * لا تصدر منه حرارة أو زئدة

الحل الأمثل لإضاءة الشوارع



www.futeklighting.com



ISO 9001-2008

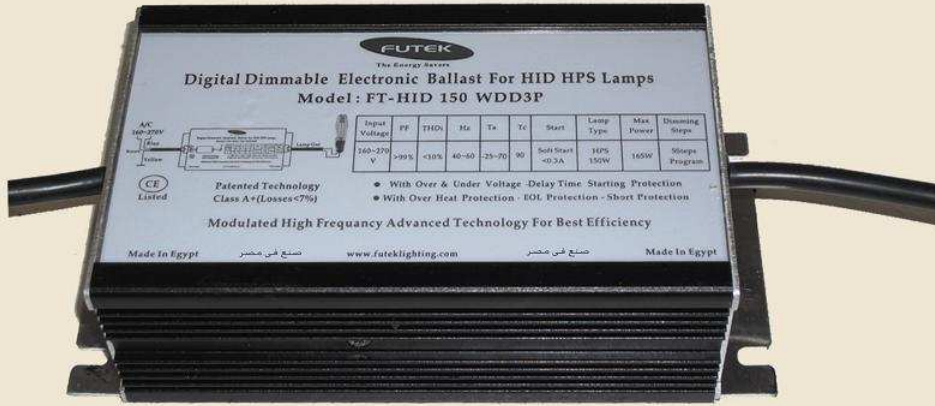
صناعة مصرية

FUTEK HID Digital Dimmable Electronic Ballast

MODEL : FT-HID 400-250-150-100W DD3P

Over Voltage Protection - Thermal Protection - Over Heat Intelligent Dimming Technology

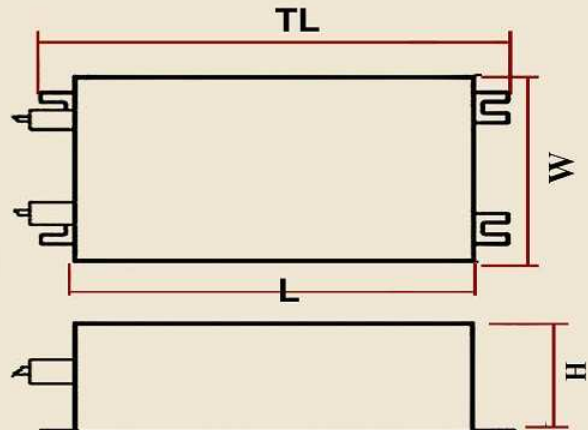
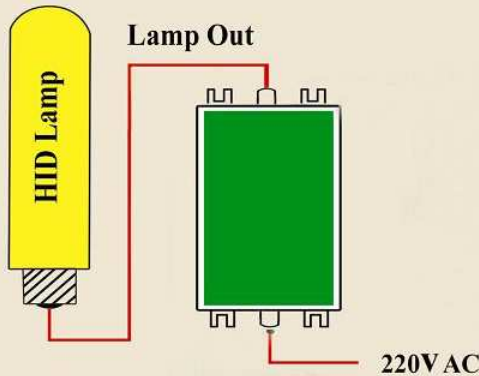
With soft strat and light level demand control



THECHNICAL SPECEFICATIONS.

المواصفات الفنية

Parameter description	FT-HID 400W DD 3P	FT-HID 250WDD3P	FT-HID 150WDD3P	FT-HID 100W DD3P
LINE VOLTAGE AND FREQUENCY	160 ~ 260 VOLT / 40 ~ 60 HZ			
POWER FACTOR	> 99%			
BALLAST FACTOR	1			
MAXIMUM THDi	< 10%			
IGNITION VOLTAGE	3000 ~ 4000 VOLT		2500 VOLT MAX	
MAXIMUM STARTING CURRECT "AMPERE"	< 0.4		< 0.3	
LAMP WORKING FREQUENCY	40KHZ ~ 100 KHZ			
LAMP POWER	400 W	250 W	150 W	100 W
DIMMING STEPS	5 STEPS 100% >90% >80% >65% >50%		5 STEPS 100% >90% >80% >70% >60%	
DIMMING PROGRAMS	8 PROGRAMS		1 PROGRAM	
OPERATING TEMPERATURE	Ta - 20 C ~ + 70 C			
MAXIMUM CASE TEMPERATURE AT + 70C	Tc < 95 C			
AUTO SHUT OFF PROTECTION	FULL PROTECTION AS IEC 61347-1-2-12 + THERMAL PROTECTION			
Over Voltage Protection	From > 270V A/C UP TO 440 V A/C			
DIMENSION (mm)	TL	240	212	180
	L	200	180	145
	W	110	110	90
	H	78	76	50



Wiring Diagrams

الإدارة التجارية : 3 ميشيل لطف الله - الزمالك - القاهرة مصر

المصنع : مدينة السادات الصناعية مصر

صندوق بريد : 18 الزمالك # 11211

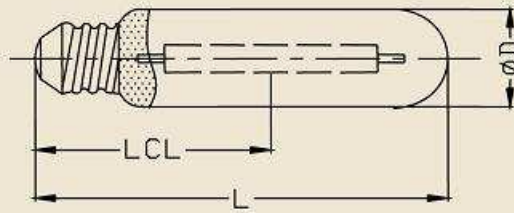
E-mail: futekeg@yahoo.com

ت : 02- 27350228 فاكس : 02- 27350059



Spec. of Super High Pressure Sodium Lamp
FUTEK Super HPS 100 W-150 W
T type niobium tube

Out dimensions chart



This specification measure up to GB/T 13259 & IEC60662

1. Geometry dimensions			100 W	150 W
Item	Item Description	Parameter		
1.1	dimension ΦD [mm]	47 Max		
1.2	dimension LCL [mm]	132 \pm 5		
1.3	dimension L full length of lamp [mm]	211 Max		
1.4	Base type /	E40		
1.5	Base axiality °	3 Max		
2. Starting description				
2.1	Starting voltage limit requirement [V]	198		
2.2	Starting time [S]	10 Max		
3. Ignite description				
3.1	pulse voltage [KV]	2.5 ~ 3		
3.2	pulse time [us]	1.95 \pm 0.05		
3.3	pulse times [times]	once per cycle		
4. Electrical technical data				
4.1	voltage [V]	100 \pm 15		
4.2	current(reference) [A]	12	1.8	
4.3	wattage(reference) [W]	100 (110 max)	150	(165 max)
5. Light technical data				
5.1	luminous flux [Lm]	> 100Lm/w - 10500 Lm	> 110 Lm/w	-16800 Lm
5.2	Colour temperature [K]	2100		
5.3	Colour index /	> 30	> 50	
5.4	Lumen maintenance(2000h) [%]	> 95 with FUTEK HF ballast		
5.5	average life [h]	30000 Single Tube	60000 Dual Tube	
6. Reference ballast characteristic				
6.1	Rated frequency [Hz]	50		
6.2	Rated voltage [V]	220		
6.3	Reference current [A]	0.50	0.75	
6.4	Lamp Voltage	99		
6.5	Power factor	> 98		
7. Others				
7.1	base temperature [°C]	210 Max.		
7.2	outer bulb temperature [°C]	310 Max.		
7.3	Base torque force [N.m]	5 Min.		
7.4	Burning position /	horizontal		

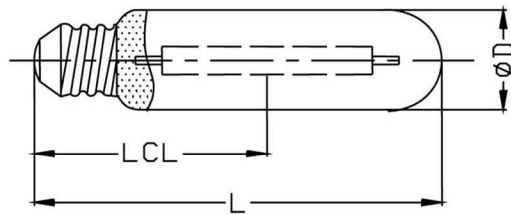
صنع في مصر



Spec. of Super HPS FUTEK Lamp
FT-SHPS- 250 W 220V 50/60 Hz
T type niobium tube

Doc No.: TEK-001
 Edition No.: A 10
 Page 1 Total 1

Out dimensions chart



This specification measure up to GB/T 13259 & IEC60662

1. Geometry dimensions

Item	Item Description	parameter
1.1	dimension (ΦD) [mm]	48 Max
1.2	dimension (LCL) [mm]	153~163
1.3	dimension (L) full length of lamp [mm]	260 Max
1.4	Base type /	E40
1.5	Base axiality °	3 Max

2. Starting description

2.1	Starting voltage limit requirement [V]	198
2.2	Starting time [S]	10 Max

3. Ignite description

3.1	pulse voltage [KV]	3~5
3.2	pulse time [us]	1.95 ± 0.05
3.3	pulse times [times]	once per cycle

4. Electrical technical data

4.1	voltage [V]	105 ± 15
4.2	current(reference) [A]	3
4.3	wattage(reference) [W]	250 (280 max)

5. Light technical data

5.1	luminous flux [Lm]	Rated: 32000	Ave: 30000	Min: 27000
5.2	Colour temperature [K]	2100		
5.3	Colour index /	≤ 30		
5.4	Lumen maintenance(2000h) [%]	> 90		
5.5	average life [h]	30000		

6. Reference ballast characteristic

6.1	Rated frequency [Hz]	50
6.2	Rated voltage [V]	220
6.3	Reference current [A]	3
6.4	Voltage\current ratio /	60
6.5	Power factor /	0.06 ± 0.005

7. Others

7.1	base temperature [°C]	250 Max.
7.2	outer bulb temperature [°C]	400 Max.
7.3	Base torque force [N.m]	5 Min.
7.4	Burning position /	horizontal

Write by: DR.M.HELA Audit: BAHER approver: Date: 2011/ 4/5