CONTENTS

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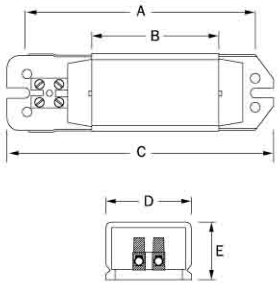
T8 FLUORESCENT LAMP BALLAST



Features:
- Wide varieties of ballast for different type of lamps.
- Reduction on consumption of electrical energy.
- Flicker free for Maximum **ENERGY SAVING.**
- Low total **HARMONIC DISTORTION.**
- Noiseless and highly reliable.
- Low temperature rise.
- Long life services.
- Easy installation.
- 220V/ 60Hz available on request

Standard Complied:
- MS 141 :PT.2:1993
- MS IEC 61347-1:2003
- MS IEC 61347-2-8:2003

****ELL : Extra Low Loss**

Model	Lamp	Ampere	Power Factor	Watt Loss	Voltage / Frequency	TW	Weight (kg)	Dimension (MM)					Packing (Unit/box)	Delivery
								A	B	C	D	E		
PCLF 10	1X10W	0.18A	0.35	8.50W	240V/50 Hz	130°C	0.34	88	30	102	43	33	30	S
PCLF 20	1X18W	0.37A	0.36	10.00W	240V/50 Hz	130°C	0.78	135	64	155	43	33	30	F
PCLF 40	1X36W	0.40A	0.52	10.00W	240V/50 Hz	130°C	0.78	135	64	155	43	33	30	F
PCLF 20ELL	1X18W	0.37A	0.29	6.00W	240V/50 Hz	130°C	0.78	130	72	150	43	33	20	F
PCLF 40ELL	1X36W	0.40A	0.40	6.00W	240V/50 Hz	130°C	0.78	130	72	150	43	33	20	F
PCLF 65	1X65W	0.66A	0.52	11.00W	240V/50 Hz	130°C	0.78	135	65	155	43	33	20	M

*** Delivery Box –** F = Fast (1 week) M = Moving (3 – 4 weeks) S = Slow (3 - 4 months) *** Terms & condition Apply

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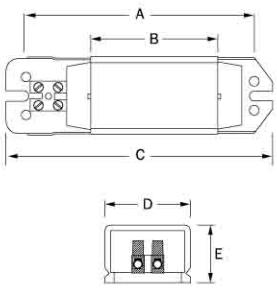
COMPACT FLUORESCENT LAMP BALLAST



Features:

- Wide varieties of ballast for different type of lamps.
- Reduction on consumption of electrical energy.
- Low total **HARMONIC DISTORTION**.
- Low temperature rise.
- Long life services.
- Easy installation.
- 220V/ 60Hz available on request.

Standard Complied:

- MS 141 :PT.2:1993
- MS IEC 61347-1:2003
- MS IEC 61347-2-8:2003

****ELL : Extra Low Loss**

Model	Lamp	Ampere	Power Factor	Watt Loss	Voltage/ Frequency	TW	Weight (kg)	Dimension (MM)					Packing (Unit/Box)	Delivery
								A	B	C	D	E		
PCPL 7/9/11	1X7W	0.17A	0.39	7W	240V/50 Hz	130°C	0.34	100	31	110	40	31	40	F
PCPL 7/9/11	1X9W	0.17A	0.42	7W	240V/50 Hz	130°C	0.34	100	31	110	40	31	40	F
PCPL 7/9/11	1X11W	0.15A	0.50	6.00W	240V/50 Hz	130°C	0.34	100	31	110	40	31	40	F
PCPL 13	1X13W	0.175A	0.49	4.00W	240V/50 Hz	130°C	0.34	100	37	110	40	31	40	F
PCPL 18	1X18W	0.22A	0.49	6.00W	240V/50 Hz	130°C	0.34	100	42	110	40	31	40	F
PCPL 26	1X26W	0.31A	0.48	6.00W	240V/50 Hz	130°C	0.50	100	50	110	40	31	20	F

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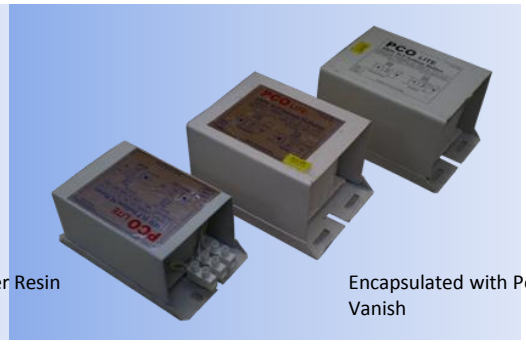
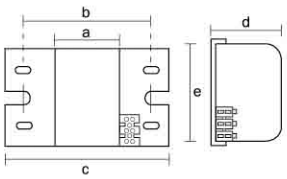
HIGH PRESSURE SODIUM BALLAST

Fully Solid Polyester Resin Compound Filled



Encapsulated with Polyester Vanish



Features:

- Fully solid Polyester Resin Compound Filled and Encapsulated with Polyester Vanish type.
- 2 type of losses – standard & low loss.
- Two input terminal – 220V & 240V.
- Suitable for superimposed ignitor or pulse ignitor.
- Low temperature rise.
- Suitable for street lantern and other industrial lighting.
- Benefit of **Fully Solid Polyester Resin Ballast**
  - Core damage protection.
  - Moisture protection.

Standard Complied:

- MS IEC 61347-1:2003
- MS IEC 61347-2-9:2003
- MS IEC 60923:1995
- JKR Approved-Low Loss
- TNB Approved-Low Loss

STANDARD LOSS BALLAST

Model	SON Lamp	Voltage/ Frequency	Standard loss	Circuit				Ballast								Packing (Unit/Box)	Delivery
				Uncorrected		Corrected		Total circuit Watt	TW	Weight (kg)	Dimension (MM)						
				Amp	P.F	C	P.F				A	B	C	D	E		
PCLS 70SL	70W	240V/50 Hz	18.0W ±10%	1.00A	0.38	12.00uf	0.94	83W	130°c	1.40	85	125	140	58	70	10	M
PCLS 100SL	100W	240V/50 Hz	20.0W ±10%	1.20A	0.39	12.00uf	0.86	116W	130°c	1.90	85	125	140	58	70	10	M
PCLS 150SL	150W	240V/50 Hz	22.0W ±10%	1.80A	0.42	16.00uf	0.88	165W	130°c	2.60	115	128	145	66	81	10	M
PCLS 250SL	250W	240V/50 Hz	33.0W ±10%	3.00A	0.37	35.00uf	0.96	266W	130°c	4.00	124	118	141	84	99	4	M
PCLS 400SL	400W	240V/50 Hz	45.0W ±10%	4.40A	0.40	40.00uf	0.90	418W	130°c	4.90	124	143	154	84	99	4	M

LOW LOSS BALLAST

Model	SON Lamp	Voltage/ Frequency	Low loss	Circuit				Ballast								Packing (Unit/Box)	Delivery
				Uncorrected		Corrected		Total circuit Watt	Thermal	Weight (Kg)	Dimension (MM)						
				Amp	P.F	C	P.F		TW		A	B	C	D	E		
PCLS 70	70W	240V/50 Hz	≤11.9W	1.00A	0.36	12.00uf	0.90	83W	130°c	1.70	85	125	140	58	72	10	S
PCLS 100	100W	240V/50 Hz	≤15.0W	1.20A	0.41	12.00uf	0.95	116W	130°c	2.00	85	125	140	58	72	10	S
PCLS 150	150W	240V/50 Hz	≤18.0W	1.80A	0.41	16.00uf	0.87	165W	130°c	2.80	115	130	145	66	81	10	S
PCLS 250	250W	240V/50 Hz	≤27.0W	3.00A	0.42	35.00uf	0.94	270W	130°c	4.75	124	128	141	84	99	4	S
PCLS 400	400W	240V/50 Hz	≤39.0W	4.40A	0.40	40.00uf	0.86	420W	130°c	5.70	144	152	174	84	99	4	S

*** Delivery Box –** F = Fast (1 week) M = Moving (3 – 4 weeks) S = Slow (3 - 4 months) *** Terms & condition Apply

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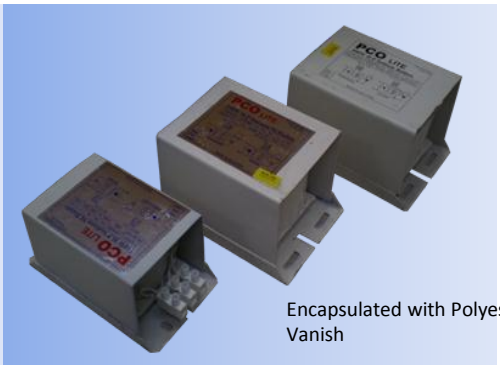
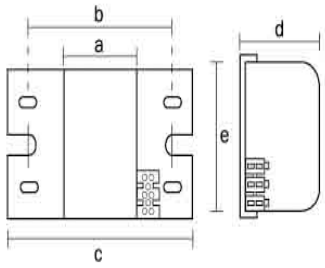
HIGH PRESSURE METAL HALIDE BALLAST





Features:

- Fully solid Polyester Resin Compound Filled and Encapsulated with Polyester Vanish type.
- Two input terminal – 220V & 240V.
- Suitable for superimposed ignitor or pulse ignitor.
- Low temperature rise.
- Suitable for street lantern and other industrial lighting.
- Benefit of **Fully Solid Polyester Resin Compound Ballast**
  - Core damage protection .
  - Moisture protection

Standard Complied:

- MS IEC 61347-1:2003
- MS IEC 61347-2-9:2003
- MS IEC 60923:1995
- JKR Approved-Low Loss
- TNB Approved-Low Loss

STANDARD LOSS BALLAST

Model	SON Lamp	Voltage/ Frequency	Standard loss	Circuit				Ballast								Packing (Unit/Box)	Delivery
				Uncorrected		Corrected		Total circuit Watt	Thermal	Weight (kg)	Dimension (MM)						
				Amp	P.F	C	P.F		TW		A	B	C	D	E		
PCLMH 70SL	70W	240V/50 Hz	18.0W ±10%	1.00A	0.36	12.00 uf	0.94	95W	130°c	1.40	85	125	140	58	70	10	M
PCLMH 150SL	150W	240V/50 Hz	20.0W ±10%	1.80A	0.38	16.00 uf	0.89	180W	130°c	2.60	128	128	145	66	81	10	M
PCLMH 250SL	250W	240V/50 Hz	22.0W ±10%	3.00A	0.55	30.00 uf	0.95	281W	130°c	4.00	128	128	141	84	99	10	M
PCLMH 400SL	400W	240V/50 Hz	33.0W ±10%	3.50A	0.50	35.00 uf	0.88	412W	130°c	4.40	143	143	154	84	99	4	M

LOW LOSS BALLAST

Model	(SON) Lamp	Voltage	Low loss	Circuit				Ballast								Packing (Unit/Box)	Delivery
				Uncorrected		Corrected		Total circuit Watt	Thermal	Weight (kg)	Dimension (mm)						
				Amp	P.F	C	P.F		TW		A	B	C	D	E		
PCLMH 70	70W	240V/50 Hz	≤11.9W	1.00A	0.36	12.00uf	0.95	83W	130°c	1.70	85	125	140	58	72	10	S
PCLMH 150	150W	240V/50 Hz	≤18.0W	1.20A	0.41	16.00uf	0.87	165W	130°c	2.80	115	130	145	66	81	10	S
PCLMH 250	250W	240V/50 Hz	≤27.0W	1.80A	0.42	30.00uf	0.94	270W	130°c	4.75	124	128	141	84	99	10	S
PCLMH 400	400W	240V/50 Hz	≤39.0W	3.50A	0.40	35.00uf	0.93	430W	130°c	4.80	124	143	154	84	99	4	S

*** Delivery Box –** F = Fast (1 week) M = Moving (3 – 4 weeks) S = Slow (3 - 4 months) *** Terms & condition Apply

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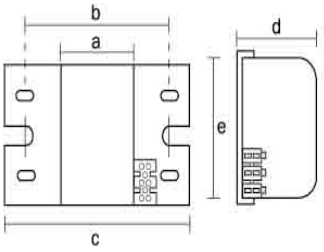
HIGH PRESSURE MERCURY BALLAST

Fully Solid Polyester Resin Compound Filled

Encapsulated with Polyester Vanish



Features:

- Fully solid Polyester Resin Compound Filled and Encapsulated with Polyester Vanish type.
- Low temperature rise.
- Suitable for street lantern and other industrial lighting.
- Benefit of **Fully Solid Polyester Resin Compound Ballast.**
- Core damage protection.
- Moisture protection.

Standard Complied:

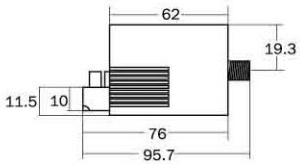
- MS IEC 61347-1:2003
- MS IEC 61347-2-9:2003
- MS IEC 60923:1995

STANDARD LOSS BALLAST

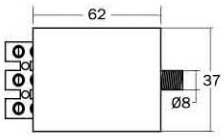
Model	(SON) Lamp	Voltage/ Frequency	Watt Loss	Circuit				Ballast								Packing (Unit/Box)	Delivery
				Uncorrected		Corrected		Total circuit Watt	Thermal	Weight (kg)	Dimension (mm)						
				Amp	P.F	C	P.F		TW		A	B	C	D	E		
PCLM 50SL	50W	240V/50 Hz	10.0W ±10%	0.61A	0.42	7.50uf	0.88	60W	130°c	1.10	85	125	140	58	70	10	M
PCLM 80SL	80W	240V/50 Hz	15.0W ±10%	0.80A	0.43	10.00uf	0.94	96W	130°c	1.27	85	125	140	58	70	10	M
PCLM 125SL	125W	240V/50 Hz	15.0W ±10%	1.15A	0.51	10.00uf	0.93	138W	130°c	1.55	85	125	140	58	70	10	M
PCLM 250SL	250W	240V/50 Hz	21.0W ±10%	2.15A	0.50	16.00uf	0.92	270W	130°c	2.80	115	118	145	66	81	10	M
PCLM 400SL	400W	240V/50 Hz	30.0W ±10%	3.25A	0.55	30.00uf	0.93	420W	130°c	4.15	124	143	145	84	99	4	M

*** Delivery Box –** **F** = Fast (1 week) **M** = Moving (3 – 4 weeks) **S** = Slow (3 - 4 months) *** Terms & condition Apply

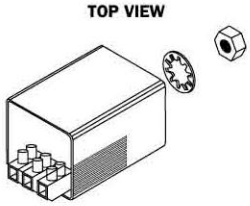
SUPERIMPOSED IGNITOR



FRONT VIEW



TOP VIEW



ISOMETRIC VIEW

General all HID lamp require high voltage to start. In order to produce a higher voltage then the main voltage, an ignitor is require. PCO Lite ignitor which are manufactured in accordance with ICE 926 and ICE 927 are compatible with all standard ballast. New technology and high quality component use to ensure they are reliable and with understand a temperature up to 90°c. PCO Lite ignitor also use high grade cooling polyester to prevent moisture to come in contact with the components during condensation.

Features:

In built solid state

- Suitable for sodium vapor and metal halide lamps.
- Compatible with all standard ballast.
- Suitable with most type of lamps.

Standard Complied:

- IEC 60926 : 1995
- IEC 60927 : 1996 + 1: 1999

GENERAL SPECIFICATION	
Model	PCI 70/400
Supply Voltage	200V- 240V
Frequency	50 Hz or 60 Hz
Peak Voltage	3000v - 4500v
Losses	1.6W – 2.5W
No of pulse per half cycle	Three pulse every half cycle
Pulse Duration	980 n sec @ 2500V
Pulse Position	+60° - 90° / 240° - 270°
Maximum Temperature	90°c
Distance Between Lamp And Ignitor	2 m
Dimension	L87.5mm X H37.0mm x W37.0mm
Weight	152gm
Mounting	M8 Nut
Index Of Protection	IP 65

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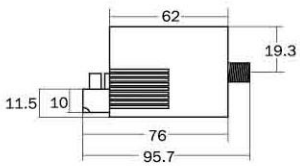
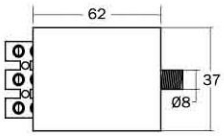
SUPERIMPOSED IGNITOR

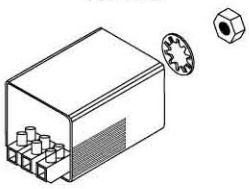
Digital Cut-Out Lamp Failure Recognition



FRONT VIEW



TOP VIEW



ISOMETRIC VIEW

Ignitor are use for starting High Pressure Metal Halide and High Pressure Sodium discharge lamp. A well designed ignitor will always match and operate with any correctly rated ballast such as our ignitor. New technology and high quality components use is to ensure that they are reliable. Others material such as high grade cooling polyester is also use which render the ignitor fully complied to IP 65. For additional safety, PCO Lite superimposed ignitor incorporated the latest Digital Timer Cut-Out control function. A feature that will protect and prolog the life span of the luminaire.

Features:

- In built solid state
- Suitable for sodium vapour and metal halide lamp
- Compatible with all standard ballast
- Low temperature rise
- Suitable with most type of lamp
- Automatically cut-out for lamp failure recognition.

Standard Complied:

- IEC 60926 : 1995
- IEC 60927 : 1996 + 1: 1999

GENERAL SPECIFICATION	
Model	PCI 100/400/CO
Supply Voltage	200V- 240V
Frequency	50 Hz or 60 Hz
Peak Voltage	3000v - 4500v
Losses	1.6W – 2.5W
No of pulse per half cycle	Three pulse every half cycle
Pulse Duration	980 n sec @ 2500V
Pulse Position	+60° - 90° / 240° - 270°
Maximum Temperature	90°c
Distance Between Lamp And Ignitor	2 m
Dimension	L87.5mm X H37.0mm x W37.0mm
Weight	169gm
Mounting	M8 Nut
Index Of Protection	IP 65