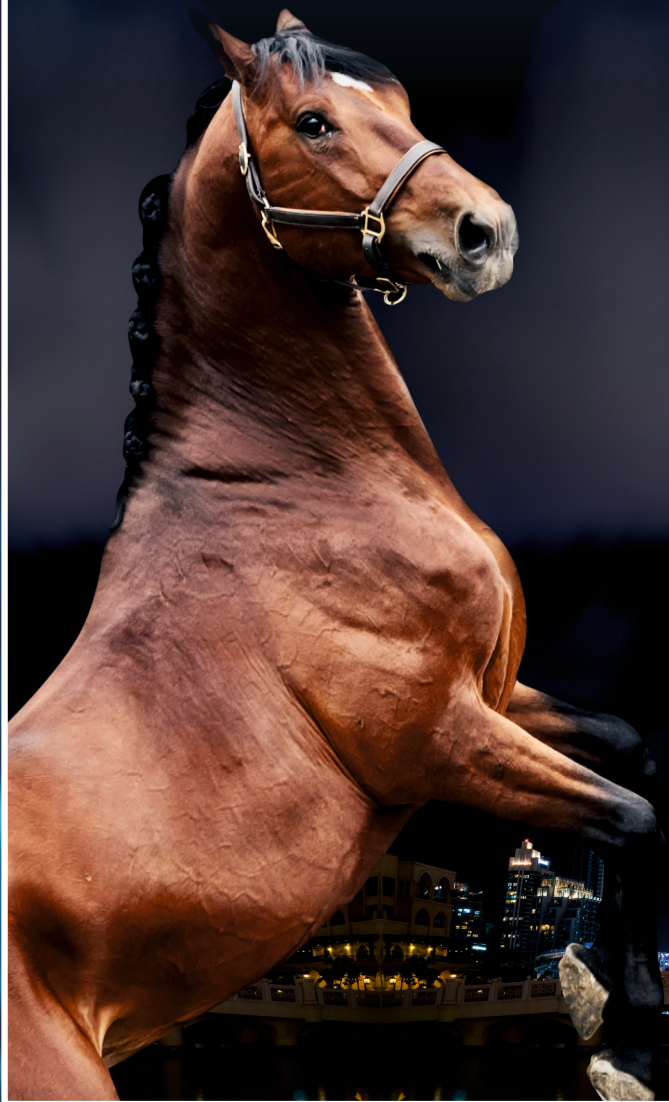


FULHAM PRESENTS THE 2023

MIDDLE EAST CATALOGUE

A RESOURCE FOR PAST & PRESENT LIGHTING INNOVATIONS & SOLUTIONS



FULHAM
Harness the Horsepower

Celebrating 30 years of working with our customers to deliver innovative lighting solutions. Thank you for your support!

Global Timeline



1994
Fulham Co. Inc. Incorporated



WorkHorse Fluorescent Ballasts launched



2008
First Fulham LED products released



2001
Global Headquarters opens Hawthorne, California



Fulham engineering lab approved for UL product testing

2009
Hotspot1 wins



HotSpot LED Emergency Systems debut

India Timeline

11
Years of Innovation



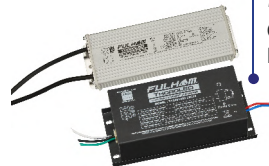
2011
Electronic Ballasts



2013
LED Modules & Indoor LED drivers



2012
Induction Lamps & LED Modules



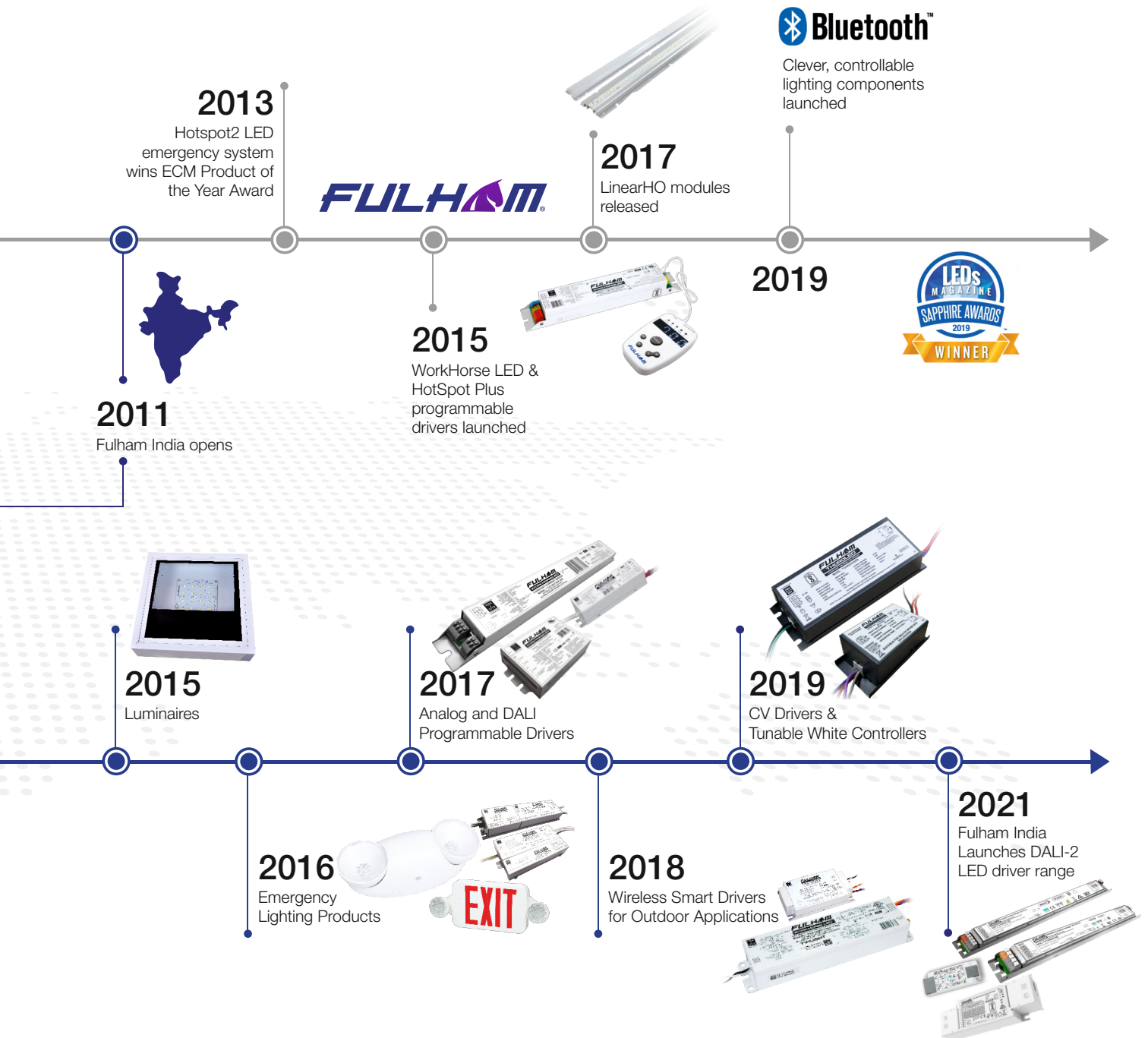
2014
Outdoor LED Drivers

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Multiple industry accolades, milestones and patents

Global development, manufacturing, sales and service: Americas / Europe / India / Asia

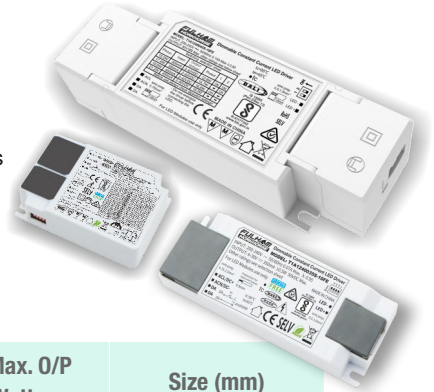
A true lighting leader





DALI Constant Current : Compact Range Drivers

- DALI-2 + pushDIM Dimming
- 16 level current output by external DIP Switch
- Dimming range : 1-100%, Output current accuracy 2%
- Soft dimming & flicker-free at any brightness
- Screw-free & Pressing type Strain relief
- Intelligent LED hot-plug protection function
- CE, DALI-2 Certification
- 10W/22W/28W/42W/60W

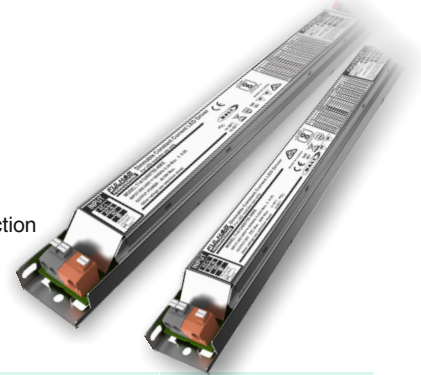


Form Factor	Model No.	Current selection (DIP switch) mA	O/P Voltage (Vdc)	Max. O/P Wattage	Size (mm)
Compact	T1A1240035S-10EE	100-350	12-42	10.5W	L130*W29*H20
Compact	T1A1240070S-10EE	350-700	2.5-17	10W	L130*W29*H20
Compact	T1A1240035S-10FE	100-350	6-42	10W	L117*W46*H24
Compact	T1A1240045S-18FE	300-450	3-42	18W	L98*W44*H30
Compact	T1A1240060S-22FE	225-600	6-42	22W	L117*W46*H29
Compact	T1A1240075S-28FE	300-750	6-42	28W	L117*W46*H29
Compact	T1A1240110N-42FE	450-1100	6-42	42W	L103*W69*H31



DALI Constant Current: Linear Range Drivers

- DALI-2 + pushDIM Dimming
- 10 level current output by external DIP Switch
- Dimming range : 1-100%, Output current accuracy 2%
- Soft dimming & flicker-free at any brightness
- Standby Power Input less than 0.5 W - Meets ErP Certification requirement
- SELV and CLASS-1 Design
- Intelligent LED hot-plug protection function
- High PF, High Efficiency, Low THD
- CE, DALI-2 Certification
- 30W/40W/50W/70W



Form Factor	Model No.	Current selection (DIP switch) mA	O/P Voltage (Vdc)	Max. O/P Wattage	Size (mm)
Linear	T1A1240075S-30EE	300-750	3-42	30W	L245*W30*H21
Linear	T1A1240100S-40EE	550-1000	3-42	40W	L285*W30*H21
Linear	T1A1240125S-50EE	800-1250	3-42	50W	L285*W30*H21
Linear	T1A1240075S-40EE	300-750	3-54	40W	L285*W30*H21
Linear	T1A1240100S-50EE	550-1000	3-54	50W	L285*W30*H21
Linear	T1A1240150S-70EE	1050-1500	3-54	70W	L355*W36*H23
Linear - non isolated	T1A1240045S-75EE-NI	100-450	54-200	75W	L245*W30*H21
Linear - non isolated	T1A1240080S-100EE-NI	250-800	54-200	100W	L285*W30*H21



DALI Constant Current: Tunable White (DT8) Drivers

- DALI-2 + pushDIM Dimming + pushCCT Control
- Support advanced functions such as corridorDIM,EL,CLO
- 10 level current output by external DIP Switch
- Soft dimming & flicker-free at any brightness
- Dimming range : 1-100%, Output current accuracy 2%
- Suitable for Emergency Lighting - En50172
- Screw-free & Pressing type Strain relief
- Intelligent LED hot-plug protection function
- CE, DALI-2 Certification
- Standby Power Input less than 0.5 W - Meets ErP Certification requirement



Form Factor	Model No.	Current selection (DIP switch) mA	O/P Voltage	O/P Wattage (W)	Size (mm)
Compact	T1A2240035S-10FE	100-350	12-54	10W	L117*W46*H24
Compact	T1A2240045S-22FE	150-450	12-54	22W	L117*W46*H29
Compact	T1A2240080S-30FE	350-800	12-54	30W	L117*W46*H29
Linear	T1A2240105S-42EE	600-1050	12-42	42W	L285*W31*H21
Compact	T1A2240105S-42FE	600-1050	12-42	42W	L114*W75*H30



DALI Constant Voltage: 24V DALI & Tunable White (DT8) Drivers

- DALI-2 + pushDIM Dimming
- Dimming range : 1-100%, Output current accuracy 2%
- Soft dimming & flicker-free at any brightness
- SELV and CLASS-1 Design
- CE, DALI-2 Certification
- High PF, High Efficiency, Low THD
- 60W, 100W, 150W - DT6 Drivers
- Standby Power Input less than 0.5 W - Meets ErP Certification requirement
- DALI-2 + pushDIM + pushCCT Control
- 2-Channel Constant Voltage Output
- Dimming range : 1-100%, Output current accuracy 2%
- Soft dimming & flicker-free at any brightness
- SELV and CLASS-1 Design
- CE, DALI-2 Certification
- 100W, 150W - DT8 Drivers
- Standby Power Input less than 0.5 W - Meets ErP Certification requirement



24 V DT6 CV DALI					
Form Factor	Model No.	Max. O/P Current	O/P Voltage	O/P Wattage (W)	Size (mm)
Linear	T1A1240024V-60E	2.5A	24V (+/-5%)	60W	L285*L30*L21
Linear	T1A1240024V-100E	4.2A	24V (+/-5%)	100W	L355*L30*L21
Linear	T1A1240024V-150E	6.25A	24V (+/-5%)	150W	L355*W36*H23

24V DT8 CV DALI

Form Factor	Model No.	Max. O/P Current	O/P Voltage	O/P Wattage (W)	Size (mm)
Linear	T1A2240024V-100EE (DT8)	4.2A	24V (+/-5%)	100W	L355*W36*H23
Linear	T1A2240024V-150EE (DT8)	6.25A	24V (+/-5%)	150W	L355*W36*H23



DALI Constant Voltage : 48V

- DALI-2 + pushDIM Dimming
- Dimming range : 1-100%, Output current accuracy 2%
- Soft dimming & flicker-free at any brightness
- Standby Power Input less than 0.5 W - Meets ErP Certification requirement
- SELV and CLASS-1 Design
- CE, DALI-2 Certification
- High PF, High Efficiency, Low THD
- 60W, 100W, 150W - DT6 Drivers

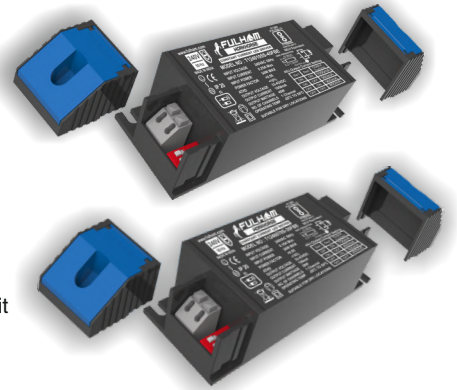


Form Factor	Model No.	O/P Current	O/P Voltage	O/P Wattage (W)	Size (mm)
Linear	T1A1240048V-60E	1.25A	48V (+/-5%)	60W	L285*L30*L21
Linear	T1A1240048V-100E	2.1A	48V (+/-5%)	100W	L355*L30*L21
Linear	T1A1240048V-150E	3.12A	48V (+/-5%)	150W	L355*W36*H23



FBE Series (Low Ripple -DIP switch)

- Low Ripple (O/P current ripple < 10%)
- O/P Current selection through DIP Switch
- THD < 10% at all currents
- Power factor > 0.95 at all currents
- Input OVP cutoff and 440V sustenance for 8 hrs
- Thermal Foldback at Max TC
- Cable Clamp for Independent Installation (Optional)
- CE Compliant
- Suitable for CLASS II fixtures, SELV equivalent
- O/P Open & short circuit protection.
- O/P overload & O/P to ground short circuit protection
- Life 50,000hrs at max Tc

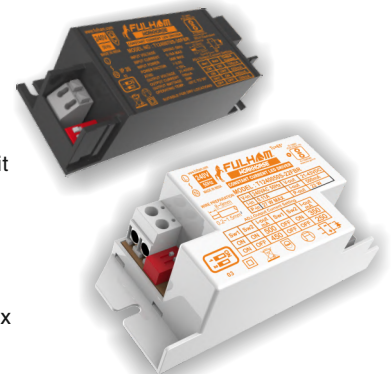


Model No.	Current(mA)	Voltage (Vdc)	Wattage (W)	Protections	Size (mm)
T1240050S-22FBE	250/350/450/500	21-43	22	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	L107*W44*H32
T1240070S-30FBE	400/500/600/700	21-43	30	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	L107*W44*H32
T1240105S-45FBE	800/900/950/1050	21-43	45	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	L107*W44*H32



FBR Series (Compact -DIPswitch)

- O/P Current selection through DIP Switch
- THD < 10% at all currents
- Power factor > 0.95 at all currents
- Input OVP cutoff and 440V sustenance for 48 hrs
- Thermal Foldback at Max TC
- Cable Clamp for Independent Installation (Optional)
- Suitable for CLASS II fixtures
- O/P Open & short circuit protection
- O/P overload & O/P to ground short circuit protection
- Life 30,000hrs at max Tc
- 22FBR Dimensions – L-80 x W-40 x H-27mm
- 30 FBR & 45 FBR Dimensions – L-106.2 x W-44 x H-31.5mm



Model No.	Current(mA)	Voltage (Vdc)	Wattage (W)	Protections	IP Rating	Size (mm)
T1240050S-22FBR	250/350/450/500	21-43	22	4KV, 325VAC(Cutoff), 440VAC(48 Hrs)	IP 20	L80*W40*H27
T1240070S-30FBR	550/600/650/700	21-43	30	4KV, 325VAC(Cutoff), 440VAC(48 Hrs)	IP 20	L107*W44*H32
T1240105S-45FBR	800/900/950/1050	21-43	45	4KV, 325VAC(Cutoff), 440VAC(48 Hrs)	IP 20	L107*W44*H32



Metal Linear -Non Dimmable Driver

- THD Less than 10%
- Power factor > 0.95
- SELV equivalent , Class II
- 0-10V Dimmable. (Dimming range 10%-100%)
- Input OVP cutoff and 440V sustenance for 8 hrs
- O/P Current selection option with Switch provision
- O/P Open & short circuit protection
- O/P overload & O/P to ground short circuit protection
- Life 50,000hrs at max Tc



Model No.	Current(mA)	Voltage (Vdc)	Wattage (W)	Protections	Dimming	Size (mm)
T1240050S-25LB	350/400/450/500	30-50	30	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	NA	L183*W30*H23
T1240060S-30LB	450/500/550/600	30-50	30	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	NA	L183*W30*H23
T1240080S-40LB	650/700/750/800	30-50	40	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	NA	L183*W30*H23
T1240100S-40LB	850/900/950/1000	24-40	40	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	NA	L183*W30*H23
T1240105S-57LB	800/850/900/950/1050	40-54V	57	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	NA	L183*W30*H28



Metal Linear - 1-10V Analog Dimmable Driver

Model No.	Current(mA)	Voltage (Vdc)	Wattage (W)	Protections	Dimming	Size (mm)
T1M1240050S-25LB	350/400/450/500	30-50	25	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	1-10V Analog	L183*W30*H23
T1M1240060S-30LB	450/500/550/600	30-50	30	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	1-10V Analog	L183*W30*H23
T1M1240080S-40LB	650/700/750/800	30-50	40	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	1-10V Analog	L183*W30*H23
T1M1240100S-40LB	850/900/950/1000	24-40	40	4KV, 325VAC(Cutoff), 440VAC(8 Hrs)	1-10V Analog	L183*W30*H23



SUGARCUBE - Indoor Drivers



- SELV Equivalent , Class II
- Sustains at 320Vac for 48 hrs. & 360Vac for 2 Hrs
- O/P overload & O/P to ground short circuit protection
- Warranty : 3 years
- O/P Open & short circuit protection
- Life 30,000hrs at max Tc

Model No.	Current(mA)	Voltage (V)	Wattage (W)	PF	SURGE	IP Rating	SIZE (mm)
T12400150-06F.	150	21-42	6	> 0.85	3KV	IP20	L80*W40*H27
T12400200-08F.	200	21-42	8	> 0.90	3KV	IP20	L80*W40*H27
T12400700-08F.	700	7-12	8	> 0.85	3KV	IP20	L80*W40*H27
T12400250-10F.	250	22-42	10	> 0.95	3KV	IP20	L80*W40*H27
T12400300-13F.	300	21-42	13	> 0.95	3KV	IP20	L80*W40*H27
T12400350-15F.	350	21-42	15	> 0.95	3KV	IP20	L80*W40*H27
T12400700-15F.	700	12-21	15	> 0.85	3KV	IP20	L80*W40*H27
T12400400-17F.	400	21-42	17	> 0.95	3KV	IP20	L80*W40*H27
T12400500-20F.	500	30-40	20	> 0.85	3KV	IP20	L80*W40*H27



PONY - Indoor Drivers



- THD Less than 10%
- Power factor > 0.95
- Input Over voltage & Under voltage cutoff & auto restart
- Life 50,000hrs at max Tc
- Sustenance at 440Vac for 48 hrs
- Surge Protection: 4KV
- O/P Open & short circuit protection
- O/P overload & O/P to ground short circuit protection

Model No.	Current(mA)	Voltage (V)	Wattage (W)	PF	SURGE	IP Rating	SIZE (mm)
T12400700-25LB	700	18-36	25	> 0.95	4KV	IP20	L150*W40*H28
T12400750-28LB	750	18-37	28	> 0.95	4KV	IP20	L150*W40*H28
T12400800-30LB	800	21-38	30	> 0.95	4KV	IP20	L150*W40*H28
T12401000-38LB	1000	30-38	38	> 0.95	4KV	IP20	L150*W40*H28
T12400500-25LB	500	24-50	25	> 0.95	4KV	IP20	L150*W40*H28
T12400610-22LB	610	18-36	22	> 0.95	4KV	IP20	L150*W40*H28
T12400850-32LB	850	21-38	32	> 0.95	4KV	IP20	L150*W40*H28
T12400900-33LB	900	24-37	33	> 0.95	4KV	IP20	L150*W40*H28



PowerHorse - Outdoor Drivers

- THD Less than 10%
- Power factor > 0.95
- SELV equivalent, CLASS II
- O/P Open & short circuit protection
- Input Over & Under voltage cutoff
- Sustains for 440Vac for 8 hrs
- Suitable for outdoor application
- Life 50,000hrs at max Tc

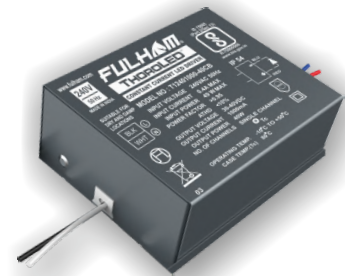


Model No.	Current(mA)	Voltage (V)	Wattage (W)	SURGE	IP Rating	SIZE (mm)
T12400700-42PB	700	40-60	42	4KV	IP67	L94*W53*H35
T12401000-40P10B	1000	30-40	40	4KV	IP67	L94*W53*H35



IronHorse - Outdoor Drivers

- THD Less than 10%
- Power factor > 0.95
- SELV equivalent, CLASS II
- O/P Open & short circuit protection
- O/P overload & O/P to ground short circuit protection
- Input Over & Under voltage cutoff
- Sustains for 440Vac for 8 hrs
- Suitable for outdoor application
- Life 50,000hrs at max Tc



Model No.	Current(mA)	Voltage (V)	Wattage (W)	SURGE	IP Rating	SIZE (mm)
T12401000-40CB	1000	30-40	40	4KV	IP54	L95*W75*H38
T12401150-45CB	1150	30-39	45	4KV	IP54	L105*W48*H31
T12400700-55CB	700	60-78	55	4KV	IP54	L120*W76*H38
T12401400-56CB	1400	30-40	56	4KV	IP54	L120*W76*H38
T12400700-65CB	700	75-93	65	5/5KV	IP54	L120*W76*H38
T12400780-67CB	780	72-86	67	5/5KV	IP54	L120*W76*H38
T1240070P-75CB	700	60-116	81	5/5KV	IP54	L160*W60*H36
T1240078P-83CB	780	60-110	83	5/5KV	IP54	L160*W60*H36
T12400700-112CB	700	120-160	112	4/4KV	IP54	L165*W60*H36
T12401000-114CB	1000	80-114	114	4/4KV	IP54	L165*W60*H36
T12400700-150LB	700	140-214V	150	5/5KV	IP54	L205*W63*H36
T12400700-200LBE	700	215-286	200	5/5KV	IP54	L205*W80*H36



IronHorse - Outdoor Drivers (0-10V Dimmable)

Model No.	Current(mA)	Voltage (V)	Wattage (W)	SURGE	IP Rating	SIZE (mm)
T1M12400700-75CBE	700	60-116	81	5/5KV	IP54	L160*W60*H36
T1M12400700-112CB	700	120-160	112	4/4KV	IP54	L165*W60*H36
T1M12401000-114CB	1000	80-114	114	4/4KV	IP54	L165*W60*H36
T1M12400700-150LB	700	140-214	150	5/5KV	IP54	L205*W63*H36



RaceHorse - Outdoor Drivers

- THD Less than 10%
- Power factor > 0.95
- SELV equivalent, CLASS I
- O/P Ripple current <10%
- Life 50,000hrs at max Tc
- O/P Open & short circuit protection
- Input Over & Under voltage cutoff
- Sustains for 440Vac for 8 hrs
- O/P overload & O/P to ground short circuit protection
- Suitable for outdoor application

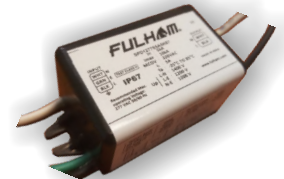


Model No.	Current(mA)	Voltage (V)	Wattage (W)	SURGE	IP Rating	SIZE (mm)
T12400700-200PBE	700	215-286	200	5/5KV	IP67	L230*W71*H39



PowerHorse - SPD

- Series connected
- Fully potted
- Compact size
- Thermally Protected
- 5KA / 10KV Surge protection
- 10KA / 20KV Surge protection
- Can sustain 15 Pulses of discharge current

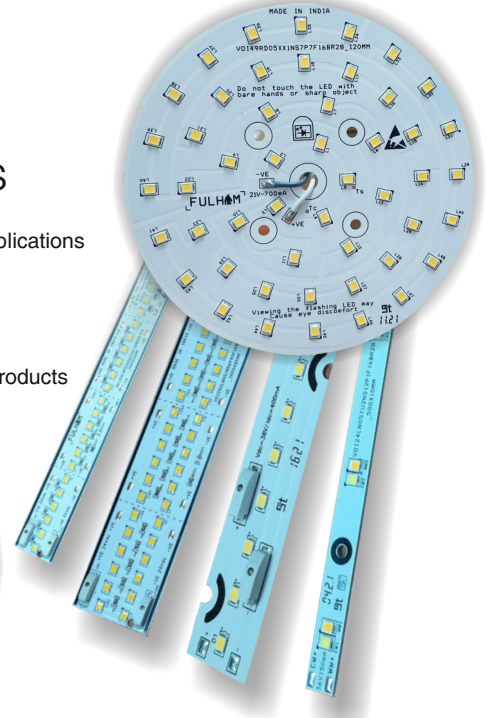
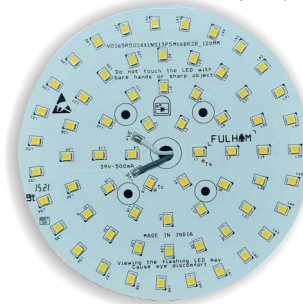


Model No.	SURGE CAPACITY	NOMINAL DISCHARGE CURRENT	MAXIMUM DISCHARGE CURRENT	Max Continuous Operating Voltage (MCOV)	Voltage Protection Level	SIZE (mm)
SPD1230S5A5K54	10KV	5KA	10KA	440Vac	L-N 1400 L-E 1200 N-E 1200	66*31*25
SPD1230S5A5K67(IP67)	10KV	5KA	10KA	440Vac	L-N 1400 L-E 1200 N-E 1200	80*47*27
SPD1230S5A10K54	20KV	10KA	20KA	440Vac	L-N 1500 L-E 1500 N-E 500	80*47*27



Vizion - Standard LED Modules

- Available in Linear, Square, Round & Customised form factors.
- Ideal for extra-flat luminaires, minimum backlit distance
- Optimised for better heat dissipation
- High efficacy (up to 210lm/w)
- Industry Accepted Modular Designs
- Standard products for variety of applications
- Compatible with SELV Drivers
- Colour consistency 3 SCDM
- High CRI > 80
- 5700K, 4000K & 3000K standard products (other CCT available on request)



LED Module - Linear Fixtures (as per Zhaga Standard)	MODULE WATTAGE	LUMEN PACKAGE
1120x20mm (4 Ft Cuttable at 280mm)	36W (1120mm)	5800 lm
560x20mm (2 Ft Cuttable at 280mm)	18W (560mm)	2900 lm
280x20mm (1 Ft)	9W (280mm)	1450 lm

LED Module - 2 x 2 Fixture Solution	MODULE WATTAGE	LUMEN PACKAGE
500x10mm 10 LED per PCB (set of 10 PCB)	36W	5800 lm
500x10mm 12 LED per PCB (set of 10 PCB)	38W	6300 lm
538x10mm 14 LED per PCB (set of 14 PCB)	42W	6925 lm

LED Module - Round Downlight Modules	MODULE WATTAGE	LUMEN PACKAGE
110mm Round 48 LED	14W	2200 lm
120mm Round 65 LED	19W	3000 lm
130mm Round 72 LED	22W	3300 lm

LED Module - 24V Constant Voltage Rigid Modules	MODULE WATTAGE	LUMEN PACKAGE
1000x15mm Single line LED - Cuttable at each 50mm	10W/mtr	1275 lm
1000x25mm Single line LED - Cuttable at each 50mm	20W/mtr	2500 lm
1000x37mm Single line LED - Cuttable at each 50mm	30W/mtr	3750 lm



Vizion - CCT Tunable LED Modules

- Available in Linear & Customised form factors
- Optimised for better heat dissipation
- High efficacy (up to 210lm/w)
- Industry Accepted Modular Designs
- Standard products for variety of applications
- Compatible with SELV Drivers
- Colour consistency 3 SCDM
- High CRI > 80
- 2700K...6500K standard products (other CCT available on request)
- Suitable with Fulham DALI 2,0 DT8
- Tunable White LED Drivers



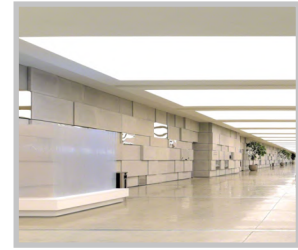
LED Module for Linear Fixtures (as per Zhaga Standard)	MODULE WATTAGE	LUMEN PACKAGE (CW)
1120x20mm (4 Ft Cuttable at 280mm)	36W (1120mm)	5800 lm
560.20mm (2 Ft Cuttable at 280mm)	18W (560mm)	2900 lm
280x20mm (1 Ft)	9W (280mm)	1450 lm

LED Module for 2 x 2 Fixture Solution	MODULE WATTAGE	LUMEN PACKAGE (CW)
500x10mm 10 LED per PCB (set of 10 PCB)	36W	5800 lm
500x10mm 12 LED per PCB (set of 10 PCB)	38W	6300 lm
538x10mm 14 LED per PCB (set of 14 PCB)	42W	6925 lm



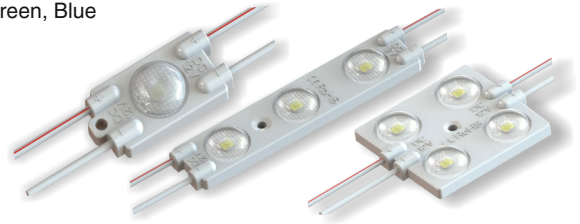
Vizion - Signage Module

- Wide beam angle ~ 170 deg
- LED with one bin system (3SDCM) Consistent color.
- Cuttable, Stable & Reliable.
- Suitable for Dimming applications
- 12Vdc Constant voltage operated
- High grade 3M self adhesion tape for easy installation, in addition with screw mounting provision.
- Rated for IP67 application
- CCT - 6500K, Red, Green, Blue
- 80 CRI



Application:

LED modules for light panel based advertising | Backlighting | Sign boards | Barrisol Ceiling



Specifications	
Input Voltage	12VDC \pm 3%
LED Quantity	Options - 1LED, 2LED, 3LED OR 4LED
CRI	Standard 80 CRI, (90 CRI available on request)
Storage temp. range	-25°C ~ +60°C / 60RH
Operating temperature range (Ta)	-10°C ~ +45°C
Max Tc	70°C
Beam Angle	170°
Color Consistency	Binning per ANSI C78.377-2015 @ 25°C Tj; 3 SDCM
Estimated Lumen Maintenance	L70: 50,000 hrs
Safety/Compliance	Wet Location
Mounting solution	3M tape OR by means of Screw type
Housing material	FR Grade Polycarbonate
Warranty	5 years at Max. Tc Against manufacturing defects, from the date of manufacture.

Product Details

SIGNFLEX-1P- 1 LED 12V 0.36W per module

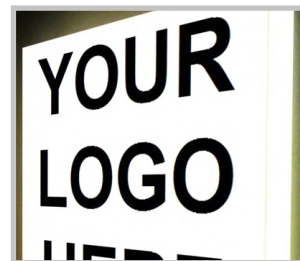
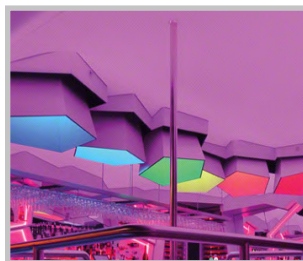
No of Modules per Chain - 50 Nos.

CCT	I/P Volage	Module Wattage	Chain Wattage	CRI	LM Per Module	LM Per Chain	Efficacy
6500K	12	0.36	18	80	56 LM	2800 LM	156 Lm/W
Red	12	0.36	18	NA	13 LM	650 LM	36 LM/W
Blue	12	0.36	18	NA	7 LM	350 LM	19 LM/W

SIGNFLEX-2P- 2 LED 12V 0.72W per module

No of Modules per Chain - 30 Nos.

CCT	I/P Volage	Module Wattage	Chain Wattage	CRI	LM Per Module	LM Per Chain	Efficacy
6500K	12	0.72	22	80	110 LM	3300 LM	153 Lm/W
Red	12	0.72	22	NA	27 LM	810 LM	38 LM/W
Blue	12	0.72	22	NA	15 LM	450 LM	21 LM/W



SIGNFLEX-3P- 3 LED 12V 1.08W per module

No of Modules per Chain - 20 Nos.

CCT	I/P Volage	Module Wattage	Chain Wattage	CRI	LM Per Module	LM Per Chain	Efficacy
6500K	12	1.08	22	80	160 LM	3300 LM	148 Lm/W
Red	12	1.08	22	NA	39 LM	785 LM	36 LM/W
Blue	12	1.08	22	NA	22 LM	436 LM	20 LM/W

SIGNFLEX-4P- 4 LED 12V 1.44W per module

No of Modules per Chain - 30 Nos.

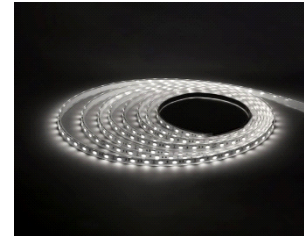
CCT	I/P Volage	Module Wattage	Chain Wattage	CRI	LM Per Module	LM Per Chain	Efficacy
6500K	12	1.44	43	80	215 LM	6450 LM	149 Lm/W
Red	12	1.44	43	NA	53 LM	1580 LM	37 LM/W
Blue	12	1.44	43	NA	29 LM	880 LM	20 LM/W



Vizion - Flexible LED Strip

- Super Bright LEDs - Stable & Reliable
- LED with one bin system (3SDCM) Consistent color
- Mounting means - 3M double side adhesive tape
- LEDs equally spaced to allow uniform light distribution
- Non-IP and IP66/68 version available
- 120° viewing angle per module
- 80 CRI/ 90 CRI Variants

Applications: Hospitality Lighting, Cabinet Lighting, Signage, Architecture lighting, Wall integration
Residential, Retail, Façade Lighting, Cove Lighting, Landscape Lighting



Specifications

Input Voltage	24VDC ± 5%
LED Quantity	60 / 120 / 180 nos. (As per the Series)
Length	5 meter per reel
CRI	Standard 80, 90 available
Storage temp. range	-25°C ~ +60°C / 60RH
Operating temperature range (Ta)	-10°C ~ +45°C (For IP20 Rated models 10°C ~ +45°C)
Beam Angle	120°
Color Consistency	Binning per ANSI C78.377-2015 @ 25°C Tj; 3 SDCM
Estimated Lumen Maintenance	L70: 50,000 hrs
Safety/Compliance	Dry and Damp Location
Mounting solution	3M tape
Warranty	3 years @ Max. Tc from the date of manufacture against manufacturing defect

Product Details

No of Modules per Chain - 30 Nos.

Model Number	Description	No of LEDs per Meter	IP Rating	Width	Watts/m	Lumens	Lumen/W
VOI060080724V27090KB0	EcoFlex - 7W	60	20	8mm	7	900	129
VOI060080724V30090KB0	EcoFlex - 7W	60	20	8mm	7	900	129
VOI060080724V40090KB0	EcoFlex - 7W	60	20	8mm	7	900	129
VOI060080724V65090KB0	EcoFlex - 7W	60	20	8mm	7	900	129
VOI060080724V27090KB6	EcoFlex IP - 7W	60	66	8mm	7	861	123
VOI060080724V30090KB6	EcoFlex IP - 7W	60	66	8mm	7	861	123
VOI060080724V40090KB6	EcoFlex IP - 7W	60	66	8mm	7	861	123
VOI060080724V65090KB6	EcoFlex IP - 7W	60	66	8mm	7	861	123
VOI060101024V27130KB0	EcoFlex - 10W	60	20	10mm	10	1300	130

Model Number	Description	No of LEDs per Meter	IP Rating	Width	Watts/m	Lumens	Lumen/W
VOI060101024V30130KB0	EcoFlex - 10W	60	20	10mm	10	1300	130
VOI060101024V40130KB0	EcoFlex - 10W	60	20	10mm	10	1300	130
VOI060101024V50130KB0	EcoFlex - 10W	60	20	10mm	10	1300	130
VOI060101024V27130KB6	EcoFlex IP - 10W	60	66	10mm	10	1244	124
VOI060101024V30130KB6	EcoFlex IP - 10W	60	66	10mm	10	1244	124
VOI060101024V40130KB6	EcoFlex IP - 10W	60	66	10mm	10	1244	124
VOI060101024V50130KB6	EcoFlex IP - 10W	60	66	10mm	10	1244	124
VOI120080724V27115KB0	HighFlex - 7W	120	20	8mm	7	1150	164
VOI120080724V30115KB0	HighFlex - 7W	120	20	8mm	7	1150	164
VOI120080724V40115KB0	HighFlex - 7W	120	20	8mm	7	1150	164
VOI120080724V65115KB0	HighFlex - 7W	120	20	8mm	7	1150	164
VOI120080724V27110KB6	HighFlex IP - 7W	120	66	8mm	7	1101	157
VOI120080724V30110KB6	HighFlex IP - 7W	120	66	8mm	7	1101	157
VOI120080724V40110KB6	HighFlex IP - 7W	120	66	8mm	7	1101	157
VOI120080724V65110KB6	HighFlex IP - 7W	120	66	8mm	7	1101	157
VOI120101624V27260KB0	HighFlex - 16W	120	20	10mm	16	2600	163
VOI120101624V30260KB0	HighFlex - 16W	120	20	10mm	16	2600	163
VOI120101624V40260KB0	HighFlex - 16W	120	20	10mm	16	2600	163
VOI120101624V65260KB0	HighFlex - 16W	120	20	10mm	16	2600	163
VOI120101624V27250KB6	HighFlex IP - 16W	120	66	10mm	16	2489	156
VOI120101624V30250KB6	HighFlex IP - 16W	120	66	10mm	16	2489	156
VOI120101624V40250KB6	HighFlex IP - 16W	120	66	10mm	16	2489	156
VOI120101624V65250KB6	HighFlex IP - 16W	120	66	10mm	16	2489	156
VOI090080724V27140KB0	SuperFlex - 7W	90	20	8mm	7	1400	193
VOI090080724V30140KB0	SuperFlex - 7W	90	20	8mm	7	1400	193
VOI090080724V40140KB0	SuperFlex - 7W	90	20	8mm	7	1400	193
VOI090080724V65140KB0	SuperFlex - 7W	90	20	8mm	7	1400	193
VOI090080724V27134KB6	SuperFlex IP - 7W	90	66	8mm	7	1340	171
VOI090080724V30134KB6	SuperFlex IP - 7W	90	66	8mm	7	1340	171
VOI090080724V40134KB6	SuperFlex IP - 7W	90	66	8mm	7	1340	171
VOI090080724V65134KB6	SuperFlex IP - 7W	90	66	8mm	7	1340	171
VOI180081424V27280KB0	SuperFlex - 14W	180	20	8mm	14	2800	200
VOI180081424V30280KB0	SuperFlex - 14W	180	20	8mm	14	2800	200
VOI180081424V40280KB0	SuperFlex - 14W	180	20	8mm	14	2800	200
VOI180081424V65280KB0	SuperFlex - 14W	180	20	8mm	14	2800	200
VOI180081424V27268KB6	SuperFlex IP - 14W	180	66	8mm	14	2680	190
VOI180081424V30268KB6	SuperFlex IP - 14W	180	66	8mm	14	2680	190
VOI180081424V40268KB6	SuperFlex IP - 14W	180	66	8mm	14	2680	190
VOI180081424V65268KB6	SuperFlex IP - 14W	180	66	8mm	14	2680	190



RaceHorse - CV Outdoor Drivers (on-off)

- THD Less than 10%
- Power factor > 0.95
- SELV equivalent,
- CLASS I
- O/P Ripple current <10%
- Life 50,000hrs at max Tc.
- O/P Open & short circuit protection.
- Input Over & Under voltage cutoff.
- Sustains for 440Vac for 8 hrs.
- O/P overload & O/P to ground short circuit protection
- Suitable for outdoor application



Model No.	Voltage (V)	Max. Current (A)	Wattage (W)	SURGE PROTECTION	IP Rating	SIZE (mm)	Dimming
T1240012V-75PB	12V	6.25A	75W	5/5KV	IP67	L189*W71*H39	NA
T1240012V-100PB	12V	8.33A	100W	5/5KV	IP67	L228*W71*H39	NA
T1240012V-150PB	12V	12.5A	150W	5/5KV	IP67	L228*W71*H39	NA

Model No.	Voltage (V)	Max. Current (A)	Wattage (W)	SURGE PROTECTION	IP Rating	SIZE (mm)	Dimming
T1240024V-75PB	24V	3.125A	75W	5/5KV	IP67	L189*W71*H39	NA
T1240024V-100PB	24V	4.16A	100W	5/5KV	IP67	L228*W71*H39	NA
T1240024V-150PB	24V	6.25A	150W	5/5KV	IP67	L228*W71*H39	NA



RaceHorse - CV Outdoor Drivers (Analog dimmable)

- THD Less than 10%
- Power factor > 0.95
- SELV equivalent,
- O/P Open & short circuit protection
- Input Over & Under voltage cutoff
- Sustains for 440Vac for 8 hrs



Model No.	Voltage (V)	Max. Current (A)	Wattage (W)	SURGE PROTECTION	IP Rating	SIZE (mm)	Dimming
12V - T1M1240012V-75PB	12V	6.25A	75W	5/5KV	IP67	L189*W71*H39	1-10V
12V - T1M1240012V-100PB	12V	8.33A	100W	5/5KV	IP67	L228*W71*H39	1-10V
12V - T1M1240012V-150PB	12V	12.5A	150W	5/5KV	IP67	L228*W71*H39	1-10V

Model No.	Voltage (V)	Max. Current (A)	Wattage (W)	SURGE PROTECTION	IP Rating	SIZE (mm)	Dimming
24V - T1M1240024V-75PB	24V	3.125A	75W	5/5KV	IP67	L189*W71*H39	1-10V
24V - T1M1240024V-100PB	24V	4.16A	100W	5/5KV	IP67	L228*W71*H39	1-10V
24V - T1M1240012V-150PB	24V	6.25A	150W	5/5KV	IP67	L228*W71*H39	1-10V

EMERGENCY FIRE ESCAPE SOLUTION



EXIT Signs & Emergency Fixtures



- EXIT Signs with option of pathway lighting
- Dual Voltage operation (120V or 277V)
- Push-to-test switch
- UL Listed
- Stand alone battery back up of up to 90 Minutes
- Dual Voltage 120V/277V
- LED Charge Indicator
- Long life energy saving LED light source

Model No.	I/P Voltage	I/P Current (120V)	I/P Current (277V)	I/P Power (120V)	I/P Power (277V)	Operating Frequency	Operating Ambient Temp. Range (Ta)	Emergency Operation	Size (mm)
FHEM10	120/277 VAC	89.8mA	73.6mA	0.56W	0.54W	60Hz	20°C to 30°C / 68°F to 86°F	90 Minutes	9 L x 4.7 H x 2.75 W
FHEX20	120/277 VAC	19mA	9mA	1.49W	1.88W	60Hz	Ambient temperature rating (Indoor): 20°C to 30°C.	90 Minutes	12.6 L x 8.2 H
FHEC30	120/277 VAC	44mA	175mA	5W	4.8W	60Hz	20°C to 30°C / 68°F to 86°F	90 Minutes	17.9 L x 8.2 H



HotSpot2 LED Driver & Emergency System



- Compact, modular emergency backup for LED luminaires
- Can be configured stand alone / Integrated with existing system
- Can be used up to 200W Luminaire
- Backup output Wattage: 1.2W to 20W Max.
- Self-diagnostic capability reduces liability and maintenance costs
- Universal Voltage: 100-277V ~ , 50/60Hz
- Output Current: 100mA to 700mA (Programable)
- Output voltage 12V to 55V
- Backup time – minimum 90 Min.



Emergency LED Driver

Shape	Item Id	Description	Voltage	Current	Size (mm)
Compact	6913	FHS2-UNV-36L	12-55V	100-700	135.7X42.8X23.7
Linear	6912	FHS2-UNV-56S	12-56V	100-700	241.3X30X25.4

Battery Kit

Battery Model No	Cabinet	Chemistry	Pack Capacity	Max load for 90 min	Battery Voltage	Recharge Time	Size (mm)
FHSBATL3-6F	With Cabinet	LiFePo4	6000mAh	20W	9.6V	24Hrs	121.6X75X41.6
FHSBATL3-6FX	Without Cabinet	LiFePo4	6000mAh	20W	9.6V	24Hrs	101X75X41.6
FHSBATL3-6S	With Cabinet	LiFePo4	6000mAh	20W	9.6V	24Hrs	237.6X36X37.5
FHSBATL3-6SX	Without Cabinet	LiFePo4	6000mAh	20W	9.6V	24Hrs	227X36X37.5



Emergency Floodlight-20W



- Suitable for Non-Maintained Emergency Lighting Application
- Programmable Backup Wattage from 5W to 20W
- 20W constant light output backup for 90 minutes
- Long Life LiFe-Po4 battery Pack
- Powered with inbuilt Self Diagnostic feature for fault detection
- Fault indication through test switch
- Customized secondary optics for wide light spread



Electrical Specifications - DRIVER

MODEL	FHS2-20WFL
RATING	20W 90 Min Backup
Rated Input Voltage *	100-277VAC , 50/60Hz
Operating Input Voltage Range *	100-277VAC, 50/60Hz
CCT Input Power *	6W MAX (Charging mode)
Standby Input Power *	< 0.8W
Output Power (Emergency mode)	1.2W to 20W Max
Battery Discharge Time	90 Min. at 20W Backup power; 180 Min. at 10W Backup Power

Electrical Specifications - FIXTURE

CCT	5700K
Lumen (at 20W)	2950 LM
Efficacy (at 20W)	147 LM/W
CRI	70 CRI
Beam angle	Type II, 135° x 85°
Estimated Lumen Maintenance at Max Ta	L70: > 60,000hrs.; L90: 48000hrs.;
Color Consistency	Binning per ANSI C78.377-2015 @ 25°C Tj; 5 SDCM

General Specifications

Fixture	Aluminum Die cast
Overall Size	221mm x 181mm x 111mm
Units per Master Carton	1 Pcs
IP Rating	IP 65
IK Rating	IK 08
Storage temp. range	-20°C to 70°C
Operating temperature range (Ta)	0°C to 40°C
Service Life	50,000 Hrs
Battery Life	2,000 cycles
Warranty	3 years @ Max. Tc from the date of manufacturing

Fulham Electronic Ballasts For UV & Germicidal Applications

Provide a low-maintenance, energy-efficient solution for germicidal ultraviolet lighting applications, including water purification, air purification and surface disinfection.



WorkHorse - UV Ballast

- Instant start ballast
- Cover a wide range of applications
- Dedicated Voltage and Universal input models
- Versatile
- Energy Saving
- High Power Factor
- Light weight
- Small Case Size
- UL approved



MODEL	WATTAGE	Size (mm)
WH5-230-L	128W	242x44x26
WH7-230-L	220W	489x44x26



SunHorse - UV Ballast

- Program / Rapid Start Ballast
- Globally Certified products (CE, UL, cULus, RCM, CB)
- 30% Less Energy Use Than Traditional Magnetic Ballasts
- Multi-Current operation: Upto 6 lamps can be run off one ballast
- Constant UV Output Eliminates Buck/Boost Transformer
- Low Radiant Heat Reduces Air Conditioning Costs
- Extended Lamp Life Reduces Maintenance Costs
- "Dimming models feature Instant Start with 0-10V dimming
- control and linear (smooth) dimming from 100-70%"
- Compatible with wide range of lamp types & configurations



MODEL	WATTAGE	Size (mm)
SHS1-UNV-C-I	42	25.4x59.9x128.3
SHS10-UNV-H	150	32x66x254
SHS11-UNV-H	190	32x66x254
SHS14-UNV-H	150	32x66x254

LUMO SERIES™

Fulham Lumo Series drivers are built on core engineering design principles for exceptional standards of performance and reliability in LED systems. Highest grade critical components together with design features for thermal management ensure excellent reliability.

Low ripple designs create flicker-free lighting and perfectly smooth dimming. Simplicity of specification and installation is a key characteristic of all Fulham Lumo Series drivers, hence the wide voltage and current ranges and industry leading low inrush current.



Engineered for Performance

- Industry leading efficiency
- Multiple dimming options and output currents
- Very high power factor



Engineered for Reliability

- Low inrush current
- Thermal, overload, short circuit and overvoltage protection
- Flicker-free light



Engineered for Simplicity

- Future-proof flexibility – industry leading voltage and current range enabling seamless support of LED generations and minimizing supply chain complexity

Non-Dim | Multiple Output Currents

Dimming- | Multiple Output Currents

Constant Voltage Output

Model No.	Alternate part number	Dimming Type	O/P Current	O/P Voltage	O/P Type	Size (mm)	Max O/P Power
L05020-1240700	L1MLT070S-12E40	Non-Dim	350/ 700 mA	3 - 34 Vdc / 3 - 17 Vdc	Constant current	99 x 39.3 x 23	12 W
L05021-40300	L1E1230030S-12E	Trailing edge	180 or 300mA	20 - 40 Vdc	Constant current	99 x 39.3 x 23	12W
L05021	L1E1230070S-12E	Trailing edge	350 or 700mA	3-32Vdc	Constant current	99 x 39.3 x 23	12W
L05011i2	L1W1MID120D-20E	0-10V, 1-10V, potentiometer 100K log b, pulse (SELV)	100 - 1200 mA	6 - 42 Vdc	Constant current OR Constant Voltage	110 x 52 x 23.5	20W
L05011i3	L1M1MID120S-24E	0-10V, 1-10V, potentiometer 100K log b, pulse (SELV)	200 - 1200 mA	6 - 42 Vdc	Constant current	110 x 52 x 23.5	200 - 1200 mA (20W) 600 - 900 mA (24W)

Final product image may vary. Fulham reserves the right to make changes in design & specification of products without prior notice. For final product details, connect to our team.

Capabilities of Fulham India Pvt. Ltd



Photometry Lab to test LEDs & LED Modules



Reliability Testing Facilities for New Products



Installed Capacity to manufacture > 300K LED Drivers per month



State-of-the-Art Auto Insertion and SMT Line



Four Highly-Flexible Manual Insertions Lines for driver assembly



Fully-Automated Soaking Set Up



Dedicated Line for LED Module Assembly



LED Module Soaking Set Up for **100%** soaking of LED Modules



Dedicated team for **custom-built LED Module design**



Management system as per **ISO 9001 : 2015**



FULHAM®

Harness the Horsepower



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