

**HELFINCH**  
TECHNOLOGIE IST GUT FÜR DIE ZUKUNFT



- ★ LED LIGHTING
- ★ ELECTRIC WIRES
- ★ SWITCHGEAR

**CATALOG**  
2024-2025

**HELFINCH LTD**

128 CITY ROAD, LONDON EC1V 2NX - UNITED KINGDOM

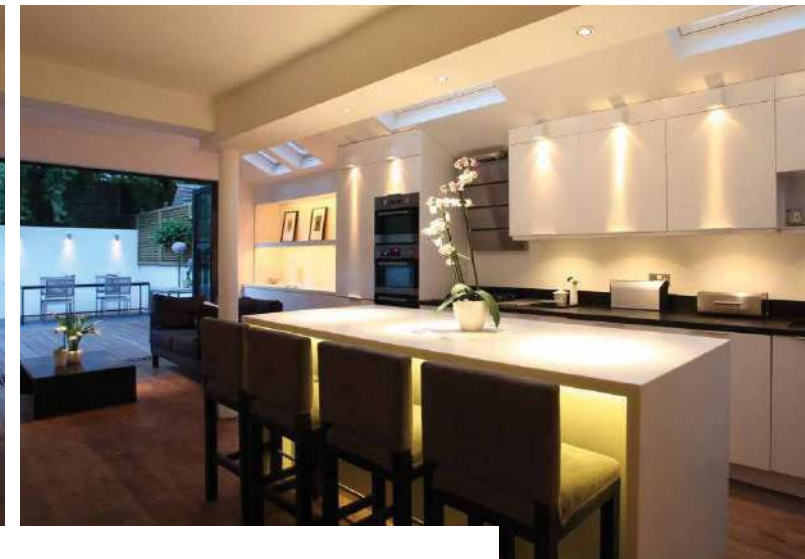
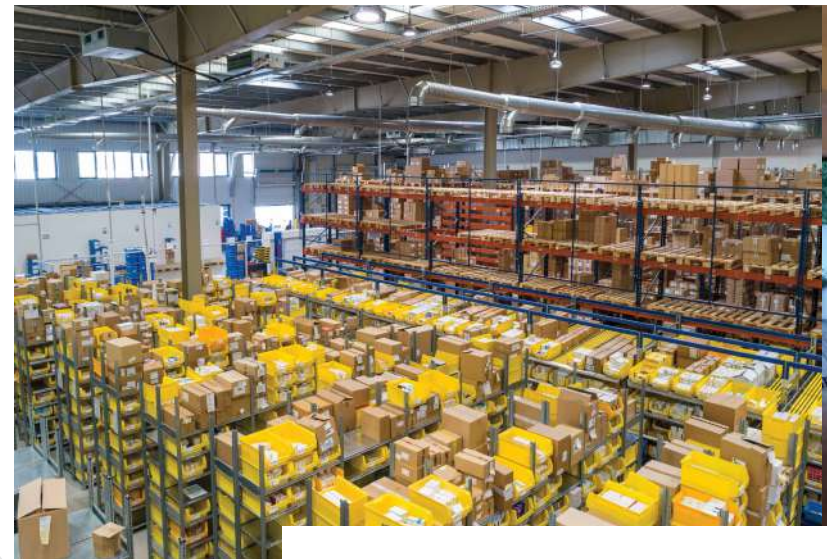
SALES@HELFINCH.COM | WWW.HELFINCH.COM | 1800-309-2234 (INDIA)

DESIGNED IN GERMANY | MANUFACTURED IN INDIA



# ABOUT HELFINCH

- Helfinch is a German origin family company currently headquartered in London (UK), and has other sites in Germany and Europe. Our primary manufacturing facilities are in India, where we manufacture in 3 business areas - premium LED Lighting, Electric Wires and Circuit breakers. Our production is carried under strict quality & technical supervision from our German offices. We are committed to developing sustainable resource efficient solution that offers greater longevity and environmental viability, while reducing energy consumption and maintenance costs.
- Helfinch India's group Managing Director, Satish Krishnan, heads the India office, with Mr. Wilson Chacko as in-charge of Operations and Mr. Pradip Bansal as the Chief Financial Officer. Mr. Vishal Sood heads the Business Management Process including manufacturing facilities.
- All of our products in India are manufactured and certified with the latest industry standards including BIS, ISO 9001-2015, RoHS and other product specific standards, at our own captive manufacturing facility in Haridwar. We are a technology leader with global compliance in all of our products. Our products are built with zero lead and without any environmentally harmful ingredients. We are proud to have a gender-inclusive workplace offering living-wages to our factory employees in a SDG aligned working condition in India.



**HELFINCH**<sup>®</sup>  
GERMAN ENGINEERING

# TABLE OF CONTENTS

INTRODUCTION	1-4
<b>LIGHTING</b>	
<b>LED BULB</b>	5
HIGH WATTAGE BULBS	6
RECESSED PANELS (POLY CARBONATE)	7
RECESSED PANELS (METAL)	8
SURFACE PANELS (POLY CARBONATE)	9
SURFACE PANELS (METAL)	10
RIMLESS SURFACE PANELS (POLY CARBONATE)	11
COB	12
EMERGENCY INVERTER BULBS	13
DOWNLIGHT	14
BATTEN	15
NIGHT BULB	16
SMART SERIES	17
HIGHBAY LIGHTS	18
FLOOD LIGHT (GLASS MODEL)	19

FLOOD LIGHT (LENS MODEL)	20
STREET LIGHT (LENS MODEL)	21
STREET LIGHT (INDUSTRIAL MODEL)	22
SOLAR STREET LIGHT (ALL IN ONE)	23
SOLAR STREET LIGHT (SEMI INTEGRATED)	24
DECORATIVE LIGHT - WALL LIGHT	25-26
DECORATIVE LIGHT - GARDEN SPIKE/FOOT LIGHT	27
DECORATIVE LIGHT - GATE LIGHT	28
DECORATIVE LIGHT - LINEAR PROFILE LIGHT	29
<b>WIRES &amp; CABLES</b>	
WIRES & CABLES - HOUSING WIRES	31-32
<b>SWITCHGEARS</b>	
MINIATURE CIRCUIT BREAKER (MCB)	34-36
ISOLATOR	37-38
MCB TYPE CHANGOVERS SWITCH	39-40
RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)	41-42
MOLDED CASE CIRCUIT BREAKER (MCCB)	43-44

# SUSTAINABLE & RESOURCE EFFICIENT

At HELFINCH, sustainability is recognised as a balanced interplay between the three areas of economy, environment and society. Only by considering each process of our core business can we ensure the long-term success of the company without negatively impacting our society or the environment. Our international business activity requires us to uphold these claims for a wide variety of stakeholder groups, not only in Germany but also worldwide where we have a presence for manufacturing and sales. Through responsible company management, ongoing improvement of our energy-efficient product portfolio and ensuring the occupational health and safety of our employees and business partners, we help to minimise the negative effects of our activity and develop in a positive way.

As a responsible producer we highlight the fact that Light is our contribution to making society and architecture better and, at the same time, preserving our environment. We understand light as the fourth dimension of architecture – and thus as an integral part of sustainable building.

Innovation, efficiency, effectiveness and sustainability are the four pillars of this strategy. Our goal is the CO2 neutral production of our LED portfolio to make light as effective and therefore as sustainable as possible in application.

HelFinch is a family business in its third generation. Thinking in the long term and sustainable behaviour are firmly anchored within our corporate culture and are part of our understanding of Environmental, Social and Corporate Governance. We bear responsibility for our locations and our employees. Through sustainable corporate management, we make our contribution to the conserving use of valuable resources.

#### Innovation – driven by Technology

HelFinch continuously invests in the development of new technologies to improve our products and production processes – especially in terms of ecology. Every innovation must be measured against our sustainability goals in order to reduce the energy and resource consumption of lighting systems and make light better within its application.

#### Efficiency – driven by Energy Reduction

Optoelectronics is our core area of expertise. With perfectly matched components consisting of in-house developed lighting technology, electronics and thermal management, we guarantee the high efficiency (in lumens per watt) of our luminaires and thus reduce energy needs.

#### Effectiveness – driven by Quality Solutions

Light only where it is needed and seen. Precise, application-oriented and maximally effective (in lx/ W) – this is what makes HelFinch lighting products an integral part of any Human Centric Lighting solution.

#### Sustainability – driven by Responsibility

Light is our contribution to sustainable building. Developed for perception-oriented Human Centric Lighting, our lighting solutions support the flexible use of architecture by people and enable low-maintenance operation during the entire service life.



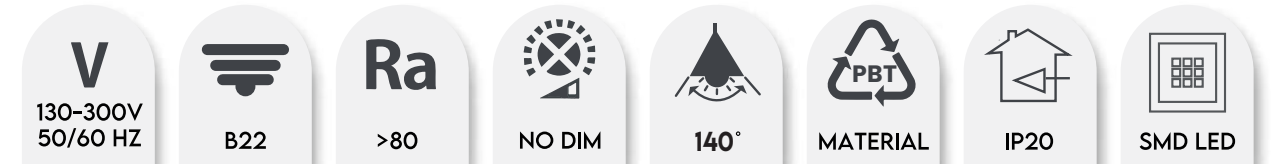
## BASIC RANGE OF HIGH QUALITY LED BULBS FOR HOME LIGHTING



- Powerful & Efficient lighting with 100 lm/watt
- Ready for India with 4.4KV surge protection
- RoHS certified export quality lighting
- Flicker Free with eyecare

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
CANDLE LAMP (B22)	3W	300	>80	>0.95	100	900.3031
CANDLE LAMP (E14)	3W	300	>80	>0.95	100	900.3032
CANDLE LAMP (B27)	3W	300	>80	>0.95	100	900.3033
LED BULB BASIC	5W	500	>80	>0.95	100	900.3051
LED BULB PREMIUM	9W	900	>80	>0.95	100	900.3091
LED BULB PREMIUM	12W	1200	>80	>0.95	50	900.3121
LED BULB PREMIUM	15W	1500	>80	>0.95	50	900.3151
LED BULB PREMIUM	18W	1800	>80	>0.95	50	900.3181

## POWERFUL LIGHTING FOR LARGE SPACES



- Flick-Free operation with high performance electronic driver
- Zero Mercury content makes our products environment friendly
- Instant switch on with low running temperature
- Ready for India with 4.4KV surge protection
- Powerful LED with high lumens per watt
- Perfect Consistent Lighting for large rooms, office or shops

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
High Wattage Dome Bulb	20W	2000	>80	>0.95	50	900.5201
High Wattage Dome Bulb	30W	3000	>80	>0.95	50	900.5301
High Wattage Dome Bulb	40W	4000	>80	>0.95	40	900.5401
High Wattage Dome Bulb	50W	5000	>80	>0.95	40	900.5501
High Wattage Dome Bulb	60W	6000	>80	>0.95	40	900.5601

# RECESSED PANEL - PC

# RECESSED PANEL - METAL

HIGH GRADE POLYCARBONATE HOUSING WITH POWERFUL DRIVER

HIGH GRADE ALUMINIUM BODY FOR LONGER LIFE

**SCAN FOR MORE** 



 **V** 85-300V 50/60 HZ  
 **NO FLICKER**  
 **Ra** >80  
 **NO DIM**  
 **120°**  
 **PC MATERIAL**  
 **IP20**  
 **SMD LED**

**SCAN FOR MORE** 



 **V** 85-300V 50/60 HZ  
 **NO FLICKER**  
 **Ra** >80  
 **NO DIM**  
 **120°**  
 **AL MATERIAL**  
 **IP20**  
 **SMD LED**

- HPF Driver with excellent lumen output
- Long lasting powerful SMD LED
- Easy maintenance and installation
- Delivers excellent illumination & comfort in high ceiling areas
- Environment-friendly as it does not contain Mercury
- Independent Isolated HPF driver with short-circuit protection, surge protection & other safety standards

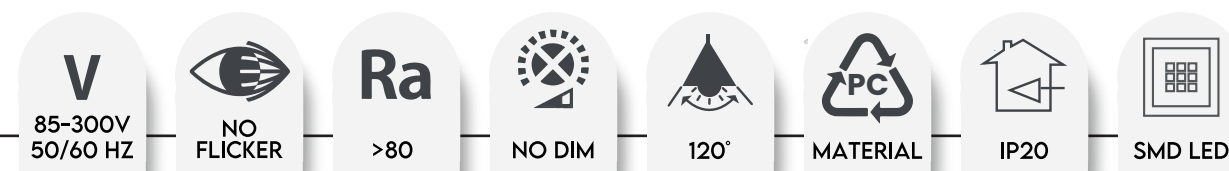
- Long lasting powerful SMD LED
- Easy maintenance and installation
- Delivers excellent illumination & comfort in high ceiling areas
- Environment-friendly as it does not contain Mercury
- Independent Isolated HPF driver with short-circuit protection, surge protection & other safety standards

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
RECESSED ROUND - PC	8W	800	>80	>0.95	50	900.6081
RECESSED SQUARE - PC	8W	800	>80	>0.95	50	900.6082
RECESSED ROUND - PC	12W	1200	>80	>0.95	40	900.6121
RECESSED SQUARE - PC	12W	1200	>80	>0.95	40	900.6122
RECESSED ROUND - PC	15W	1500	>80	>0.95	40	900.6151
RECESSED SQUARE - PC	15W	1500	>80	>0.95	40	900.6152
RECESSED ROUND - PC	18W	1800	>80	>0.95	20	900.6181
RECESSED SQUARE - PC	18W	1800	>80	>0.95	20	900.6182
RECESSED ROUND - PC	24W	2400	>80	>0.95	20	900.6241
RECESSED SQUARE - PC	24W	2400	>80	>0.95	20	900.6242

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
RECESSED ROUND - ALUMINIUM	12W	1200	>80	>0.95	40	900.6123
RECESSED SQUARE - ALUMINIUM	12W	1200	>80	>0.95	40	900.6124
RECESSED ROUND - ALUMINIUM	15W	1500	>80	>0.95	40	900.6153
RECESSED SQUARE - ALUMINIUM	15W	1500	>80	>0.95	40	900.6154
RECESSED ROUND - ALUMINIUM	18W	1800	>80	>0.95	20	900.6183
RECESSED SQUARE - ALUMINIUM	18W	1800	>80	>0.95	20	900.6184
RECESSED ROUND - ALUMINIUM	24W	2400	>80	>0.95	20	900.6243
RECESSED SQUARE - ALUMINIUM	24W	2400	>80	>0.95	20	900.6244
RECESSED ROUND 2X2 - ALUMINIUM	36W	3600	>80	>0.95	10	900.6364
RECESSED SQUARE 2X2 - ALUMINIUM	48W	4800	>80	>0.95	10	900.6483

# SURFACE PANEL - PC

HIGH GRADE POLYCARBONATE HOUSING WITH POWERFUL DRIVER

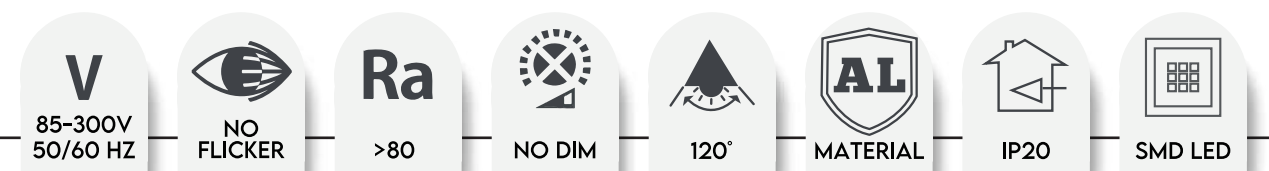


- HPF Driver with excellent lumen output
- Long lasting powerful SMD LED
- Easy maintenance and installation
- Delivers excellent illumination & comfort in high ceiling areas
- Environment-friendly as it does not contain Mercury
- Independent Isolated HPF driver with short-circuit protection, surge protection & other safety standards

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
SURFACE ROUND - PC	8W	800	>80	>0.95	50	900.9081
SURFACE SQUARE - PC	8W	800	>80	>0.95	50	900.9082
SURFACE ROUND - PC	12W	1200	>80	>0.95	40	900.9121
SURFACE SQUARE - PC	12W	1200	>80	>0.95	40	900.9122
SURFACE ROUND - PC	15W	1500	>80	>0.95	40	900.9151
SURFACE SQUARE - PC	15W	1500	>80	>0.95	40	900.9152
SURFACE ROUND - PC	18W	1800	>80	>0.95	20	900.9181
SURFACE SQUARE - PC	18W	1800	>80	>0.95	20	900.9182
SURFACE ROUND - PC	24W	2400	>80	>0.95	20	900.9251
SURFACE SQUARE - PC	24W	2400	>80	>0.95	20	900.9252

# SURFACE PANEL - METAL

HIGH GRADE ALUMINIUM BODY FOR LONGER LIFE



- Long lasting powerful SMD LED
- Easy maintenance and installation
- Delivers excellent illumination & comfort in high ceiling areas
- Environment-friendly as it does not contain Mercury
- Independent Isolated HPF driver with short-circuit protection, surge protection & other safety standards

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
SURFACE ROUND - ALUMINIUM	6W	600	>80	>0.95	50	900.9063
SURFACE SQUARE - ALUMINIUM	6W	600	>80	>0.95	50	900.9064
SURFACE ROUND - ALUMINIUM	9W	900	>80	>0.95	50	900.9093
SURFACE SQUARE - ALUMINIUM	9W	900	>80	>0.95	50	900.9094
SURFACE ROUND - ALUMINIUM	12W	1200	>80	>0.95	40	900.9123
SURFACE SQUARE - ALUMINIUM	12W	1200	>80	>0.95	40	900.9124
SURFACE ROUND - ALUMINIUM	15W	1500	>80	>0.95	40	900.9153
SURFACE SQUARE - ALUMINIUM	15W	1500	>80	>0.95	40	900.9154
SURFACE ROUND - ALUMINIUM	18W	1800	>80	>0.95	20	900.9183
SURFACE SQUARE - ALUMINIUM	18W	1800	>80	>0.95	20	900.9184
SURFACE ROUND - ALUMINIUM	24W	2400	>80	>0.95	20	900.9253
SURFACE SQUARE - ALUMINIUM	24W	2400	>80	>0.95	20	900.9254

## HIGH GRADE PC WITH WIDEST RANGE OF ILLUMINATION

**SCAN FOR MORE**

**V**  
 85-300V  
 50/60 HZ

**NO FLICKER**

**Ra**  
 >80

**NO DIM**

**120°**

**PC MATERIAL**

**IP20**

**SMD LED**

- Long lasting powerful SMD LED
  - Easy maintenance and installation
  - Delivers excellent illumination & comfort in high ceiling areas
- Environment-friendly as it does not contain Mercury
  - Independent Isolated HPF driver with short-circuit protection, surge protection & other safety standards
  - High grade PC with widest range of illumination

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
SURFACE PANEL - ROUND	8W	800	>80	>0.95	50	900.9085
SURFACE PANEL - SQUARE	8W	800	>80	>0.95	50	900.9086
SURFACE PANEL - ROUND	15W	1500	>80	>0.95	40	900.9155
SURFACE PANEL - SQUARE	15W	1500	>80	>0.95	40	900.9156

## EXCELLENT FINISH TO CLASSY INTERIORS

**SCAN FOR MORE**

**V**  
 85-300V  
 50/60 HZ

**NO FLICKER**

**Ra**  
 >80

**NO DIM**

**120°**

**IP20**

**SMD LED**

- Long lasting powerful SMD LED
  - Environment-friendly as it does not contain Mercury
- Independent Isolated HPF driver with short-circuit protection, surge protection & other safety standards
  - Easy maintenance and installation

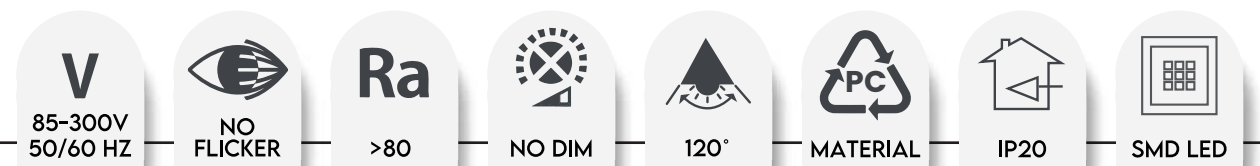
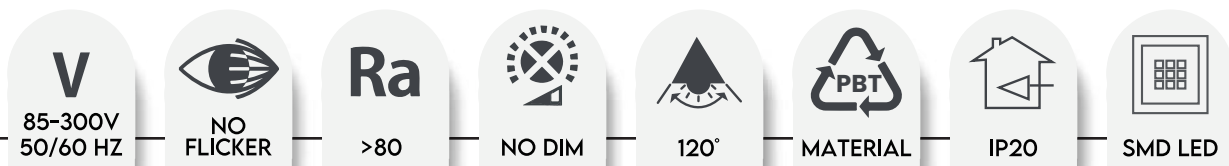
PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
COB SPOTLIGHT	2W	200	>80	>0.95	200	900.2021
COB TILTABLE	3W	300	>80	>0.95	100	900.2031
COB TILTABLE	6W	600	>80	>0.95	50	900.2061
COB TILTABLE	9W	900	>80	>0.95	50	900.2091
COB TILTABLE	12W	1200	>80	>0.95	50	900.2121
COB TILTABLE	15W	1500	>80	>0.95	40	900.2151
SURFACE COB CYLINDER	7W	700	>80	>0.95	30	900.2077
SURFACE COB CYLINDER	12W	1200	>80	>0.95	20	900.2127
SURFACE COB CYLINDER	18W	1800	>80	>0.95	20	900.2187
SURFACE COB CYLINDER	30W	3000	>80	>0.95	20	900.2307

# EMERGENCY INVERTER BULBS

# DOWNLIGHT

HIGH GRADE POLYCARBONATE HOUSING WITH POWERFUL DRIVER

HIGH GRADE POLYCARBONATE HOUSING WITH POWERFUL DRIVER



- Emergency bulbs with powerful HPF driver and BMS protection
- Long life SMD LEDs ensure maintenance free product life
- Wide voltage range that is 100-300VAC and is light in weight

- Holding a guaranteed lifespan of 25,000 hours, it is a simple plug and play product
- 97% energy saving over GLS night lamps
- Surge protection device of 4.4 kV

- HPF Driver with excellent flicker-free lumen output
- Long lasting powerful SMD LED
- High grade PVC and Spring clips used for long life

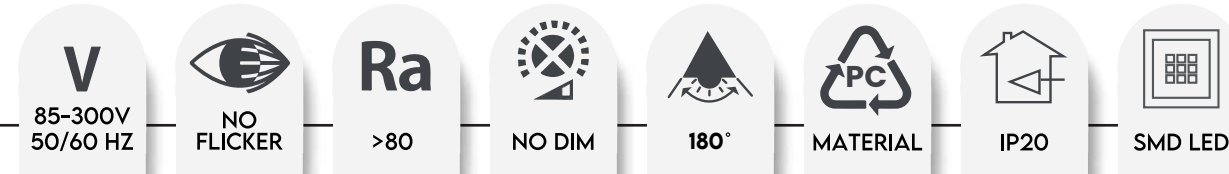
- Delivers excellent illumination & comfort in high ceiling areas
- Environment-friendly as it does not contain Mercury
- Inbuilt driver with surge and short circuit protection

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Inverter Bulb Basics (1200 mAh)	9W	900	>80	>0.95	50	900.4090
Inverter Bulb Premium	9W	900	>80	>0.95	50	900.4091
Inverter Bulb Premium	12W	1200	>80	>0.95	50	900.4121

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
XTRA CDL Downlight	7W	700	>80	>0.95	60	900.1071
XTRA CDL Downlight	9W	900	>80	>0.95	60	900.1091



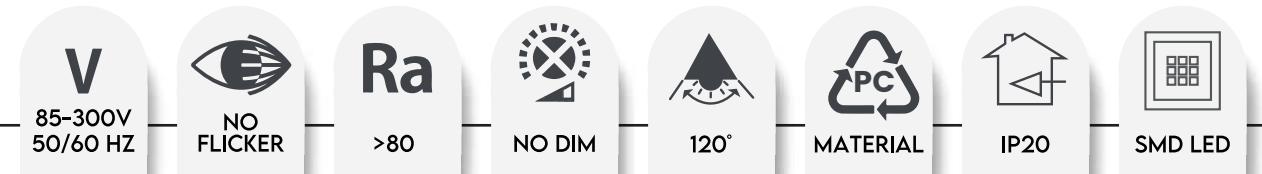
HIGH GRADE POLYCARBONATE HOUSING WITH POWERFUL DRIVER



- High quality, non-yellowing diffusers for glare-free environment with uniform light distribution
- Wide operating voltage range with inbuilt 4.4kV surge protection, short circuit and overload protection
- LED contain no harmful chemicals and does not emit almost no UV and IRE radiations
- Super long life of over 50,000 hours
- Customized to India conditions with options available for motion sensor
- One of the very few brands to offer 4.4kV surge protection using HPF driver

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
T5 BATTEN - 2 FEET	10W	1000	>80	>0.95	40	900.4051
T5 BATTEN - 4 FEET	20W	2000	>80	>0.95	30	900.4101
T5 BATTEN - MOTION SENSOR	20W	2000	>80	>0.95	30	900.4201
T5 BATTEN - 3 IN ONE	20W	2000	>80	>0.95	30	900.4202
T5 BATTEN - 4 FEET	36W	3600	>80	>0.95	20	900.4301

HIGH GRADE POLYCARBONATE HOUSING WITH POWERFUL DRIVER



- Long life SMD LEDs ensure maintenance free product life
- Wide voltage range that is 100-300VAC and is light in weight
- Holding a guaranteed lifespan of 25,000 hours, it is a simple plug and play product
- 97% energy saving over GLS night lamps

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Night Bulb	0.5W	N/A	>80	>0.95	200	900.1011
Plug & Play Bulb	0.5W	N/A	>80	>0.95	200	900.1012
USB Bulb	0.5W	N/A	>80	>0.95	200	900.1013

## FUTURIST FEATURES FOR SMARTER HOMES



- V**  
85-300V  
50/60 HZ
- NO  
FLICKER
- Ra**  
>80
- NO DIM
- 120°
- PBT  
MATERIAL
- IP20
- SMD LED

- Bring energy saving of over 80% from other LED products
- Smart home solution for the 21st century using motion and/or light sensor
- Wifi enable lighting solution for controlling from anywhere via your smart phones
- Powerful illumination and efficient switching
- Future ready products using latest innovation in lighting solutions
- Environment-friendly as it does not contain Mercury

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Motion Sensor Bulb	3W	300	>80	>0.95	100	900.1031
MultiWattage Bulb	15W	1500	>80	>0.95	50	900.1151
Motion Sensor Bulb	9W	900	>80	>0.95	50	900.1122
Wifi Smart Bulb	12W	1200	>80	>0.95	50	900.1123
Wifi Smart Bulb	15W	1500	>80	>0.95	50	900.1153

## HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



- V**  
85-300V  
50/60 HZ
- 50000  
HRS
- Ra**  
>80
- NO DIM
- 140°
- AL  
MATERIAL
- IP65
- SMD LED

- Pressure die cast Aluminium Alloy for housing for effective thermal management
- Zero Mercury content makes our products environment friendly
- Excellent corrosion resistance virgin aluminium used
- Delivers excellent illumination & comfort even on large poles
- Diamond lens offers super bright illumination even in low wattages

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Highbay Hexa Model	100W	10000	>80	>0.95	10	900.5100
Highbay Hexa Model	150W	15000	>80	>0.95	5	900.5150
Highbay Hexa Model	200W	20000	>80	>0.95	5	900.5200
Highbay UFO Model	150W	15000	>80	>0.95	5	900.5151
Highbay UFO Model	200W	20000	>80	>0.95	5	900.5201

# FLOOD LIGHT (GLASS MODEL)

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



**V** 85-300V 50/60 HZ | 
 **L** 50000 HRS | 
 **Ra** >80 | 
 NO DIM | 
 140° | 
 **AL** MATERIAL | 
 IP65 | 
 SMD LED

- Pressure die cast Aluminum Alloy for housing for effective thermal management
- Zero Mercury content makes our products environment friendly
- Excellent corrosion resistance virgin aluminium used
- Delivers excellent illumination & comfort even on large poles
- Watertight glass cover for regular outdoor use

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Flood Light	30W	3000	>80	>0.95	15	900.8301
Flood Light	50W	5000	>80	>0.95	10	900.8501
Flood Light	100W	10000	>80	>0.95	10	900.8100
Flood Light	150W	15000	>80	>0.95	5	900.8150
Flood Light	200W	20000	>80	>0.95	5	900.8200

# FLOOD LIGHT (LENS MODEL)

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



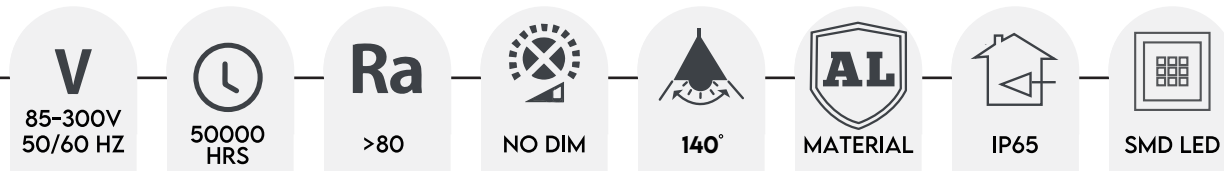
**V** 85-300V 50/60 HZ | 
 **L** 50000 HRS | 
 **Ra** >80 | 
 NO DIM | 
 140° | 
 **AL** MATERIAL | 
 IP65 | 
 SMD LED

- Pressure die cast Aluminum Alloy for housing for effective thermal management
- Zero Mercury content makes our products environment friendly
- Excellent corrosion resistance virgin aluminium used
- Delivers excellent illumination & comfort even on large poles
- Diamond lens offers super bright illumination even in low wattages

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Flood Light	30W	3000	>80	>0.95	15	900.8302
Flood Light	50W	5000	>80	>0.95	10	900.8502
Flood Light	100W	10000	>80	>0.95	10	900.8101
Flood Light	200W	20000	>80	>0.95	5	900.8201

# STREET LIGHT (LENS MODEL)

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER

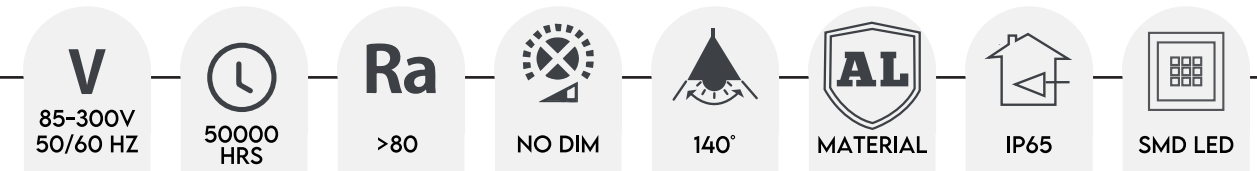


- Pressure die cast Aluminum Alloy for housing for effective thermal management
- Zero Mercury content makes our products environment friendly
- Excellent corrosion resistance virgin aluminium used
- Delivers excellent illumination & comfort even on large poles
- Diamond lens offers super bright illumination even in low wattages

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
STREET LIGHT 6KV - LENS	24W	2400	>80	>0.95	20	900.7241
STREET LIGHT 6KV - LENS	30W	3000	>80	>0.95	20	900.7301
STREET LIGHT 6KV - LENS	36W	3600	>80	>0.95	20	900.7361
STREET LIGHT 6KV - LENS	50W	5000	>80	>0.95	10	900.7501
STREET LIGHT 6KV - LENS	72W	7200	>80	>0.95	10	900.7721
STREET LIGHT 6KV - LENS	100W	10000	>80	>0.95	10	900.7100

# STREET LIGHT (INDUSTRIAL MODEL)

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



- Pressure die cast Aluminum Alloy for housing for effective thermal management
- Zero Mercury content makes our products environment friendly
- Delivers excellent illumination & comfort even on large poles
- Excellent corrosion resistance virgin aluminium used

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
STREET LIGHT 10KV - FRAME	70W	7000	>80	>0.95	10	900.7702
STREET LIGHT 10KV - FRAME	100W	10000	>80	>0.95	10	900.7101
STREET LIGHT 10KV - FRAME	150W	15000	>80	>0.95	5	900.7151
STREET LIGHT 10KV - FRAME	200W	20000	>80	>0.95	5	900.7200

# SOLAR STREET LIGHT (ALL IN ONE)

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



- 50000  
HRS
- AUTO  
DIMMABLE
- 140°
- AL  
MATERIAL
- IP65
- SMD LED

- Pressure die cast Aluminum Alloy for housing for effective thermal management
- Zero Mercury content makes our products environment friendly
- Delivers excellent illumination & comfort even on large poles
- Excellent corrosion resistance virgin aluminium used

PRODUCT NAME	POWER	Lum. Flux	Pcs/Box	CODE
12/15W 18AH 45W PANEL AIO	12/15W	900	1	900.5129
18/24W 24AH 60W PANEL AIO	18/24W	900	1	900.5189
30/36W 36AH 75W PANEL AIO	30/36W	1200	1	900.5309

# SOLAR STREET LIGHT (SEMI INTEGRATED)

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



- 50000  
HRS
- AUTO  
DIMMABLE
- 140°
- AL  
MATERIAL
- IP65
- SMD LED

- Pressure die cast Aluminum Alloy for housing for effective thermal management
- Zero Mercury content makes our products environment friendly
- Excellent corrosion resistance virgin aluminium used
- Inbuilt battery storage for safety
- Delivers excellent illumination & comfort even on large poles
- PMMA Lens offers super bright illumination even in low wattages

PRODUCT NAME	POWER	Lum. Flux	Pcs/Box	CODE
12AH 40W PANEL SEMI INTEGRATED	9W	900	1	900.5098
18AH 50W PANEL SEMI INTEGRATED	12W	1200	1	900.5128
18AH 60W PANEL SEMI INTEGRATED	15W	1500	1	900.5158
24AH 75W PANEL SEMI INTEGRATED	18W	1800	1	900.5188
30AH 75W PANEL SEMI INTEGRATED	24W	2400	1	900.5248
36AH 100W PANEL SEMI INTEGRATED	30W	3000	1	900.5308

# DECORATIVE LIGHTS-WALL LIGHT

# WALL LIGHT

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



- Long life SMD LEDs ensure maintenance free product life
- 97% energy saving over GLS night lamps

- Holding a guaranteed lifespan of 25,000 hours
- Wide voltage range that is 100-300VAC and is light in weight

- Long life SMD LEDs ensure maintenance free product life
- 97% energy saving over GLS night lamps

- Holding a guaranteed lifespan of 25,000 hours
- Wide voltage range that is 100-300VAC and is light in weight

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Wall Washer Half K	3W	300	>80	>0.95	50	900.2901
Wall Washer Full K	6W	600	>80	>0.95	40	900.2902
2 Way UpDown Light	6W	600	>80	>0.95	50	900.2903
4 Way UpDown Light	12W	1200	>80	>0.95	40	900.2904
6 Way UpDown Light	18W	1800	>80	>0.95	30	900.2905
Cylinder UpDown Light	6W	600	>80	>0.95	40	900.2906

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
4 Way Ball Light	12W	1200	>80	>0.95	50	900.2907
Lyra Wall Light (Square)	7W	700	>80	>0.95	10	900.2908
Cielo Wall Light (Round)	7W	700	>80	>0.95	10	900.2909
Sonata Wall Light (Golden)	6W	600	>80	>0.95	25	900.2911
Diva Wall Light	9W	900	>80	>0.95	10	900.2912

# GARDEN SPIKE/FOOT LIGHT

# GATE LIGHT

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



- Long life SMD LEDs ensure maintenance free product life
- 97% energy saving over GLS night lamps

- Holding a guaranteed lifespan of 25,000 hours
- Wide voltage range that is 100-300VAC and is light in weight

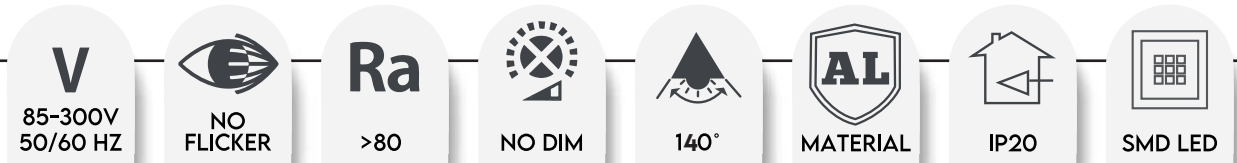
- Long life SMD LEDs ensure maintenance free product life
- 97% energy saving over GLS night lamps

- Holding a guaranteed lifespan of 25,000 hours
- Wide voltage range that is 100-300VAC and is light in weight

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Outdoor Garden Spike Light	9W	900	>80	>0.95	25	900.2913
Foot Light	12W	1200	>80	>0.95	25	900.2914

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
Crystal Gate Light	9W	900	>80	>0.95	10	900.2915
Diamond Gate Light	9W	900	>80	>0.95	10	900.2916
Square Cubicle Gate Light	12W	1200	>80	>0.95	10	900.2917

HIGH GRADE ALUMINIUM HOUSING WITH POWERFUL DRIVER



- Long life SMD LEDs ensure maintenance free product life
- 97% energy saving over GLS night lamps
- Holding a guaranteed lifespan of 25,000 hours
- Wide voltage range that is 100-300VAC and is light in weight

PRODUCT NAME	POWER	Lum. Flux	CRI	PF	Pcs/Box	CODE
4ft Linear Profile	20W	2000	>80	>0.95	10	900.2918
5 Way Linear	5W	500	>80	>0.95	40	900.2919
10 Way Linear	10W	1000	>80	>0.95	20	900.2921

100% SPARK TESTED | 99.97% CU PURITY | 101% CONDUCTIVITY

## INTRODUCTION TO WIRES & CABLES

We are a fast growing company in the Cable industry, covering wide range of cables best suited for domestic and commercial wiring applications.

HELFINCH manufactures some of the best wires in the country which can withstand the test of time and are safe against fire, flame and elements of the nature. Choose the one that best suits the needs of your home or business. You can be sure of the highest quality standard in every one of our products. Stringent quality control tests are applied at every stage from raw material to finished good so as to give you the best and most reliable product, meeting all necessary quality standards.

The insulation process is carried out on high speed extrusion lines, with online spark testers & outer diameter controllers ensuring uniform insulation throughout and moderates for any insulation faults in wires in the course of production

Our Monaco series of Flame Retardant wire (FR) offer best in class insulation and flame-retardant properties to ensure optimum electrical and mechanical performance even at very high temperatures. These wires have high insulation resistance, eco-friendly and with anti-termite and anti-rodent properties making them safe from damages from these pests.

FR wires are well insulated with specially formulated PVC compounds with additional fire retardant properties, high oxygen and temperature indices that limit the spread of fire. These safety features make these wires best suited for emergency lighting, air conditioning and control room areas where fire safety is imperative. In case of fire, ordinary PVC wires emit thick, black, toxic gases which reduce visibility and hamper rescue operations. FR wires slow the spread of fire while releasing as little smoke as possible.





# Housing Wires

## Types of Insulation Variants



### FLAME RETARDANT (FR) WIRE

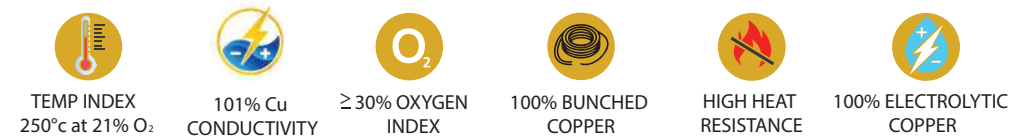
These wires are made of special insulation material with higher oxygen and temperature indices. This insulation retards flame propagation. Flame retardant properties enable the cable to withstand overloads. The insulation is resistant to boiling water, steam and vapours. This prevents ageing and cracking in kitchens, bathrooms and damp walls.

These wires are made of annealed bare copper of electrolytic grade, as per IS: 8130 -1984. The wires are two coated for superior insulation. These wires are suited for all domestic and commercial wiring applications.

#### ADDITIONAL FR PROPERTIES

Specifications	Specified Values
Critical Oxygen Index	ASTM-D 2863 ≥29%
Temperature Index	ASTM-D 2863 & BICC Handbook Chaper No.6 >250° C
Also meets requirements of Flammability Test as per IEC 60332-1	

#### UNIQUE FEATURE



### FLAME RETARDANT LEAD FREE (FRLF)

FR-LF wire is ideal for wiring in closed confined spaces and applications that require high flexibility. Best suited for installations in industries, household appliances, power supply for refrigeration, airconditioner, and building electrification.

Single-core multistandard copper conductors, FRLF PVC insulated wire with excellent flame retardant property having the RoHS and ISI compliance supporting a green revolution.

#### UNIQUE FEATURE

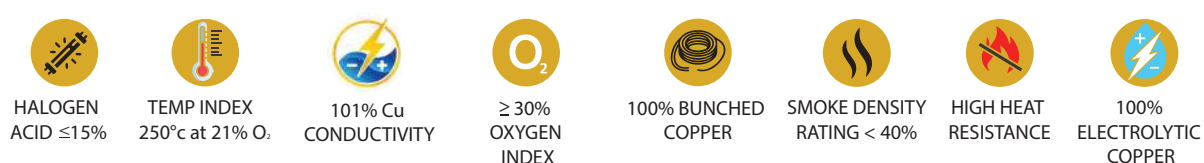


### FLAME RETARDANT LOW SMOKE HALOGEN (FRLSH)

These wires are commonly used in environments where fire safety is a priority, such as commercial buildings, hospitals, educational institutions high-rise residential complexes and more prone to fire.

The Low Smoke PVC compound which is present in the cable, makes sure the release of low smoke compared to other wires with PVC coating

#### UNIQUE FEATURE



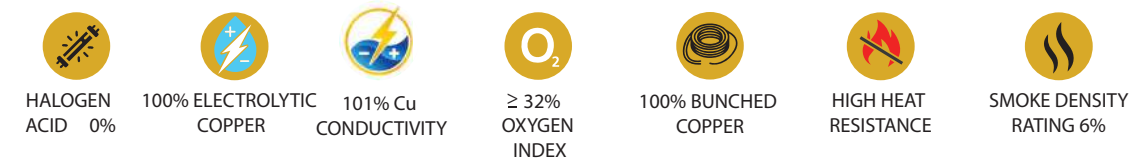
100% SPARK TESTED | 99.97% CU PURITY | 101% CONDUCTIVITY

### HEAT RESISTANT FLAME RETARDANT (HRFR)

Current carrying capacity of a wire is defined as how much load a conductor can carry (In amperage). When the current flows through the conductor a certain level of heat generates which can further increase up to the melting temperature of the insulation or insulating material.

Our wires offer insulation with (HR) Heat resistant along with Flame Retardant properties which are suitable to bear a temperature up to 85 °C whereas ordinary PVC is suitable only up to 70 °C and due to this feature our Wires are capable to carry Higher current and ensures better electrical and mechanical performance at higher temperatures.

#### UNIQUE FEATURE



### PRODUCT RANGE

#### PVC INSULATED SINGLE CORE FLEXIBLE CABLE

Nominal area of Conductor Sq. mm	Number/Nom. Dia* of wire (mm)	Nominal Thickness of Insulation mm	Approx Overall Diameter mm	Current Carryin Capacity# Cable single Phase@		Max Conductor Resistance At 20°C (Ω/km)
				In Conduit Amps	Unenclosed Amps	
0.75**	24/0.2	0.6	2.5	7	8	26
1.00*	14/0.3	0.7	2.8	11	12	18.1
1.50*	22/0.3	0.7	3.1	13	16	12.1
2.50*	36/0.3	0.8	3.8	18	22	7.41
4.00*	56/0.3	0.8	4.4	24	29	4.95
6.00**	84/0.3	0.8	5.0	31	37	3.3
10.00**	80/0.4	1.0	6.5	-	46	1.91

#As per IS:3961 (Part V)-1968

\*As per Conductor Class 2 of IS:8130-1984

\*\*As per Conductor Class 5 of IS:8130-1984

Available colors :

### TWIN TWISTED FLEXIBLE WIRE

Flixible Twin Twisted wires are made from high quality electrolytic grade copper and PVC insulation. These flexible wires are specially designer for household wiring needs which are heat resistant, fire resistant, and can withstand immense pressure.

Nominal area of Conductor Sq. mm	No. or Wire / Wire Dia mm	Thickness of Insulation mm	Overall Diameter (Approx) mm	Max Conductor Resistance At 20°C (Ω/km)
0.75**	24/0.2	0.6	5.5	26
1**	32/0.2	0.6	5.9	19.5
1.5**	48/0.2	0.6	6.45	13.3

\*\*As per Conductor Class 5 of IS:8130-1984

Available colors :

# SWITCHGEARS



## DEPENDABLE SAFE, RELIABLE PROTECTION

A single Circuit Breaker consists of over 200 individual manufactured parts. HELFINCH has the manufacturing capabilities to produce over 25 million parts a month to the strict, internationally approved specifications. Manufacturing is done by our manufacture-partner company under strict quality guidelines set by the German QC team, and this proficiency has allowed the company to attain a substantial market share in every region it operates.

We are able to rapidly design, develop and test customised prototype products. This ability, combined with the growing need to meet various international safety standards, has led HELFINCH to establish a testing and research laboratory which comprises of a control room, with two 10 kA and one 65 kA fully computerised test bay. Circuit Breakers up to 65 kA can be tested against standards for overload, endurance and vibration, thereby reducing the time required to develop a product from inception to completion.

Internationally recognised quality standards ensure that our products meet the most demanding requirements. All operations within the company are certified to ISO 9001:2015. HELFINCH invests substantially in the training of staff to ensure that quality systems are maintained and effectively implemented.

HELFINCH products are mark-bearing and approvals are audited periodically by local and international standards authorities.

HELFINCH's commitment to meeting and exceeding the most stringent of international quality and safety standards, combined with a relentless drive to continually develop new intellectual property, has also enabled the company to be recognised as an international exporter of quality products.



## MINIATURE CIRCUIT BREAKER (MCB)

- ISI/CE Marked as per IS/IEC 60898-1.
- Rated Short-Circuit, Icn 10 kA
- Degree of Protection IP 20
- Energy Limitation Class 3
- Biconnect Terminals
- Frequency: 50 HZ
- Operating Voltage: 240 V/415 V AC, 60 V DC per pole
- MCB 100 A & 125 A conforms to IEC 60947-2



## TECHNICAL SPECIFICATIONS

Product - MCB	Specification
Standard Conformity	IS/IEC60898-1:2015
Type/Series (B/C/D)	C
Rated Current (In) A	6 A-63 A
Rated Voltage (ac) (Ue) V	240/415 V
Rated Frequency (f) Hz	50 Hz
Nos. of Poles (Execution)	1P,1P+N,2P,3P,3P+N,4P
Rated Short Circuit kA	10
Breaking Capacity	10 kA
Utilization Category Magnetic Release Setting	C (5-10 In)
Rated Insulation Voltage (Ui) V	660 V
Rated Impulse Voltage (Uimp) Kv	4
Dielectric Strength kV	2.5
Electrical / Mechanical Endurance Cycles	4000
Ambient Temperature (°C)	-5 to 55°C
Terminal Capacity (Max) Sq. mm	25 Sq. mm
Degree of Protection	IP20
Method of Mounting	Din Rail Clip
Case & Cover	Moulded, flame-retardant thermoplastics material
Contact Indication Window	Indicator (Red & Green)
Biconnect Terminal (Upper Side)	YES
Biconnect Terminal (Lower Side)	YES
Air Channels	YES
Fast Trip Mechanism	YES
Dual Position Din Clip	NO
Shuttered Terminals	NO
ISI Mark	YES

## 'C' CURVE - SINGLE POLE

HSN Code 85362030

*Rating (A)	Pcs/Box	Product ID
6-32 A*	144	700.1001-6
40 A	144	700.1007
50-63 A	144	700.1008-9

\*Rating: 6 A, 10 A, 16 A, 20 A, 25 A, 32 A



## 'C' CURVE - SINGLE POLE NEUTRAL

HSN Code 85362030

*Rating (A)	Pcs/Box	Product ID
6-32 A*	72	700.1010-15
40 A	72	700.1016
50-63 A	72	700.1017-18

\*Rating: 6 A, 10 A, 16 A, 20 A, 25 A, 32 A



## 'C' CURVE - DOUBLE POLE

HSN Code 85362030

*Rating (A)	Pcs/Box	Product ID
6-32 A*	72	700.1019-24
40 A	72	700.1025
50-63 A	72	700.1026-27

\*Rating: 6 A, 10 A, 16 A, 20 A, 25 A, 32 A



## 'C' CURVE - THREE POLE

HSN Code 85362030

*Rating (A)	Pcs/Box	Product ID
6-32 A*	48	700.1028-33
40 A	48	700.1034
50 A	48	700.1035

\*Rating: 6 A, 10 A, 16 A, 20 A, 25 A, 32 A



## 'C' CURVE - THREE POLE NEUTRAL

HSN Code 85362030

*Rating (A)	Pcs/Box	Product ID
6-32 A*	36	700.1037-42
40 A	36	700.1043
50-63 A	36	700.1044-45

\*Rating: 6 A, 10 A, 16 A, 20 A, 25 A, 32 A



## 'C' CURVE - FOUR POLE

HSN Code 85362030

*Rating (A)	Pcs/Box	Product ID
6-32 A*	36	700.1046-51
40 A	36	700.1052
50-63 A	36	700.1053-54

\*Rating: 6 A, 10 A, 16 A, 20 A, 25 A, 32 A



## ISOLATOR

- Conforms to IEC 60947-3.
- Degree of Protection IP20
- CE Certified



## TECHNICAL SPECIFICATIONS

Product- Isolator	Specification
Standard Conformity	IEC-60947-3
Rated Current (In) A	25 A to 125 A
Rated Voltage (ac) (Ue) V	240/415 V
Rated Frequency (f) Hz	50 Hz
Nos. of Poles (Execution)	DP,TP & FP
Utilization Category	AC 22 A
Release Setting	NA
Rated Insulation Voltage (Ui) V	660 V
Rated Impulse Voltage (Uimp) Kv	4 Kv
Electrical/Mechanical Endurance Cycles	4000/20000
Ambient Temperature (°C)	-5 to 55°C
Terminal Capacity (Max) Sq. mm	35 Sq. mm
Degree of Protection	IP20
Dielectric Strength kV	2.5 kV
Method of Mounting	Din Rail Clip
Case & Cover	Moulded, flame-retardant thermoplastics material
Contact Indication Window	NO (Only ON-OFF marking)
Biconnect Terminal (Upper Side)	NO
Biconnect Terminal (Lower Side)	NO
Air Channels	YES
Dual Position Din Clip	NO
Shuttered Terminals	NO
ISI Mark	NO

## DOUBLE POLE - ISOLATOR

HSN Code 85362030

Rating (A)	Pcs/Box	Product ID
40 A	72	700.1055
63 A	72	700.1056
100 A	72	700.1057



## THREE POLE - ISOLATOR

HSN Code 85362030

Rating (A)	Pcs/Box	Product ID
40 A	48	700.1058
63 A	48	700.1059
100 A	48	700.1060



## FOUR POLE - ISOLATOR

HSN Code 85362030

Rating (A)	Pcs/Box	Product ID
40 A	36	700.1061
63 A	36	700.1062
100 A	36	700.1063



## TWO WAY CENTER OFF MCB CHANGEOVER SWITCH

- In accordance with IEC 60947 - 3
- Degree of Protection IP20
- CE Certified



### TECHINICAL SPECIFICATIONS

Product- MCB Changeover switch	Specification
Standard Conformity	IS/IEC 60947-3
Rated Current (In) A	25 A to 63 A
Rated Voltage (ac) (Ue) V	240/415 V
Rated Frequency (f) Hz	50 Hz
Nos. of Poles (Execution)	DP & FP
Utilization Category	AC 22 A
Dielectric Strength kV	2.5 kV
Rated Insulation Voltage (Ui) V	660 V
Rated Impulse Voltage (Uimp) k	4
Electrical Endurance (Nos.)	4000
Mechanical Endurance (Nos.)	20000
Ambient Temperature (°C)	-5 to 55°C
Terminal Capacity (Max) Sq. mm	25 Sq. mm
Degree of Protection	IP20
Method of Mounting	Din Rail Clip
Case & Cover	Moulded, flame-retardant thermoplastics material
Contact Indication Window	NO (Only ON-OFF marking)
Biconnect Terminal (Upper Side)	NO
Biconnect Terminal (Lower Side)	NO
Air Channels	YES
Dual Position Din Clip	NO
Shuttered Terminals	NO
ISI Mark	NO

## DOUBLE POLE - CHANGEOVER

HSN Code 85362030

Rating (A)	Pcs/Box	Product ID
25 A	72	700.1064
40 A	72	700.1065
63 A	72	700.1066



## FOUR POLE - CHANGEOVER

HSN Code 85362030

Rating (A)	Pcs/Box	Product ID
25 A	36	700.1067
40 A	36	700.1068
63 A	36	700.1069



## RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)

- ISI / CE MARKED as per IS/IEC 12640-1
- Frequency: 50Hz
- Degree of Protection IP 20
- Operating Voltage: 240V/415V AC



### TECHNICAL SPECIFICATIONS

Product- RCCB	Specification
Standard Conformity	IS/IEC 12640-1
Type (A/AC)	AC
Rated Current (In) A	25 A to 63 A
Sensitivity* (In) mA	30 mA, 100 mA & 300 mA
Nos. of Poles (Execution)	DP & FP
Rated Voltage (Un)	DP-240 V & FP-415 V
Rated Insulation Voltage (Ui) V	660 V
Rated Frequency Hz	50 Hz
Short circuit Withstand Capacity kA	6 kA
Residual Making Breaking Capacity	500 A or 10 In whichever is greater
Dielectric Strength kV	2.5 kV
Ambient Temperature °C	-5 to 55°C
Electrical/Mechanical operations	4000
Method of Mounting	Din Rail Clip
Degree of Protection	IP20
Terminal Capacity (max) mm <sup>2</sup>	25 Sq. mm
Case & Cover	Moulded, flame-retardant thermoplastics material
Contact Indication Window	Indicator
Biconnect Terminal (Upper Side)	NO
Biconnect Terminal (Lower Side)	NO
Air Channels	NO
Fast Trip Mechanism	YES
Dual Position Din Clip	NO
Shuttered Terminals	NO
ISI Mark	YES

## DOUBLE POLE RCCB

HSN Code 85362040

Rating (A)	Pcs/Box	Product ID
25 A 30 mA	72	700.1070
25 A 100 mA	72	700.1071
25 A 300 mA	72	700.1072
40 A 30 mA	72	700.1073
40 A 100 mA	72	700.1074
40 A 300 mA	72	700.1075
63 A 30 mA	72	700.1076
63 A 100 mA	72	700.1077
63 A 300 mA	72	700.1078



## FOUR POLE RCCB

HSN Code 85362040

Rating (A)	Pcs/Box	Product ID
25 A 30 mA	36	700.1079
25 A 100 mA	36	700.1080
25 A 300 mA	36	700.1081
40 A 30 mA	36	700.1082
40 A 100 mA	36	700.1083
40 A 300 mA	36	700.1084
63 A 30 mA	36	700.1085
63 A 100 mA	36	700.1086
63 A 300 mA	36	700.1087
100 A 30/100 mA	36	700.1088



## MOLDED CASE CIRCUIT BREAKER (MCCB)

Product Range: 16 A - 800 A in different frame size  
 Rated Voltage (ac) (Ue) V 240/415 V  
 Rated Frequency (f) Hz 50 Hz  
 Breaking Capacity up to 85 kA



### TECHNICAL SPECIFICATIONS

Product- MCCB	Specification
Standard conformity	IS/IEC 60947-2
Rated Operational Voltage (Ue) V~	690 V
Rated Insulation Voltage (Ui)	1000 V
Impulse Withstand Voltage (Uimp)	8 kV
Thermal Adjustability in entire range	
Protective Function	Overload, short-circuit and instantaneous protection
Suitability for Isolation	YES
Utilization Category	A
Pollution Degree	3
Pole	2P, 3P, 4P
Magnetic Release Setting	(8-12)In
Electrical/Mechanical Endurance Test (Durability)	20000
Ambient Working Temperature	-5°C to 55°C
Storage Temperature	-25°C to +70°C
Connection	Terminal screw
Installation Position	Horizontal/Vertical

## DOUBLE POLE MCCB

HSN Code 85362020

Rating (A)	Breaking Capacity	Pcs/Box	Product ID
63 A	10 kA	72	700.1089
100 A	10 kA	72	700.1090



## TRIPLE POLE MCCB

HSN Code 85362020

Rating (A)	Breaking Capacity	Pcs/Box	Product ID
63 A	10 kA	48	700.1091
100 A	25 kA	48	700.1092
125 A	25 kA	48	700.1094
160 A	35 kA	48	700.1095
200 A	35 kA	48	700.1096
250 A	35 kA	48	700.1097
400 A	50 kA	48	700.1098
630 A	50 kA	48	700.1099
800 A	50 kA	48	700.1100



## FOUR POLE MCCB

HSN Code 85362020

Rating (A)	Breaking Capacity	Pcs/Box	Product ID
63 A	10 kA	36	700.1101
100 A	25 kA	36	700.1103
125 A	25 kA	36	700.1104
160 A	35 kA	36	700.1105
200 A	35 kA	36	700.1106
250 A	35 kA	36	700.1107
400 A	50 kA	36	700.1108
630 A	50 kA	36	700.1109
800 A	50 kA	36	700.1110

