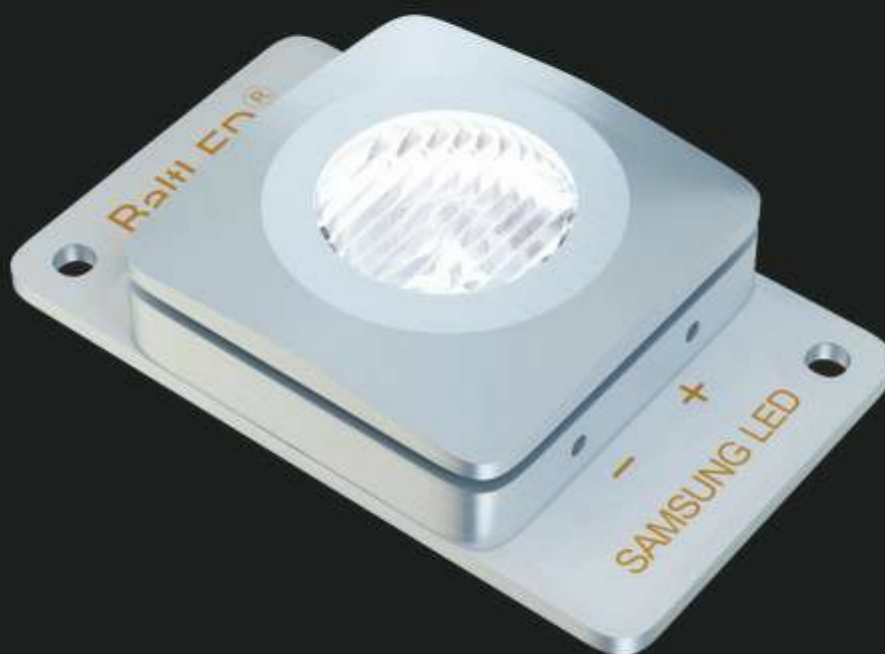


Baltled Product Catalogue 2015



LED Modules
and accessories

Optic

Developed exclusive optic design
Effective light distribution
>90% light transmittance



Housing

Exclusive housing design
-30° ~ +80° High - Low
temperature cycles test passed
Quick mounting design
IP 66

Components

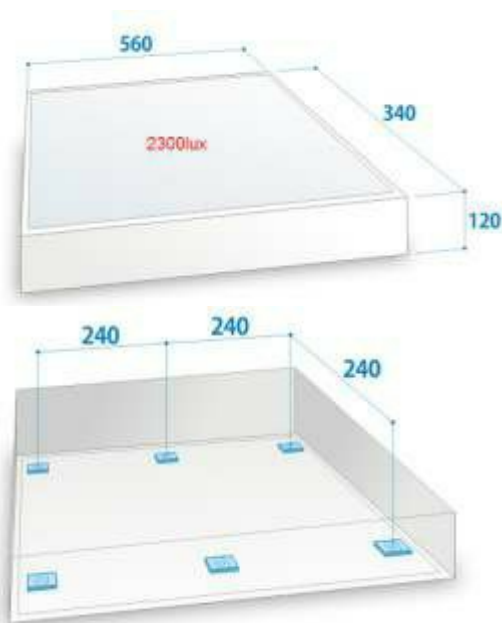
LM-80 LED certified
McAdam 3 step color range
8 KV ESD protection
Reverse voltage protection
Bypass circuit protection
145 lm/W LED efficiency
CRI>80
Safe LED forward current
L70 % 45 000 hours



Circuit

Safe Thermal Design
Metal Core PCB
36 OZ. copper layer thickness
Direct LED heat sing soldering
Constant Current design
Tinned copper wires
> 20 AWG cables improves
electrical conductivity
Quick-fix wires

STAR NEW



Best over 150 mm depth large size
light boxes



230 lm 2,1 W IP 66 IP 67

Created for:

- Illumination of big depth light boxes over 150 mm with very fast installation
- Special lens for best uniformity 600 mm distance between centers for most effective price of led solution

Special features:

- Unique 160 degree Optical Lens diffuser
- Powered by Phillips LED
- LM-80 LED certified
- Carbon fibre housing
- New technology PCB

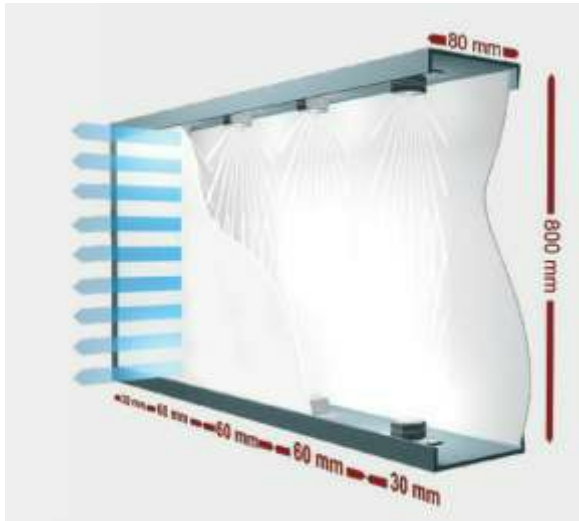
Applications:

- Big letters from 200 mm depth
- One-sided light box from 150 mm depth

Other features:

- Long operating life - 60 000 h@L70
- High Efficiency over 110 lm/W
- Made in Japan
- IP - 66/67

DUO NEW



Best for 140-200 mm depth
double sided light boxes



230 lm 2,1 W IP 66 IP 67

Created for:

- High brightness illumination of big depth double sided light boxes
- Unique and patented design
- Ultra Efficient heat cooling system
- Optimal for 140-200 mm depth illumination

Special features:

- Unique Optical Lens diffuser
- Powered by Phillips LED
- LM-80 LED certified
- Carbon fibre housing
- New technology PCB

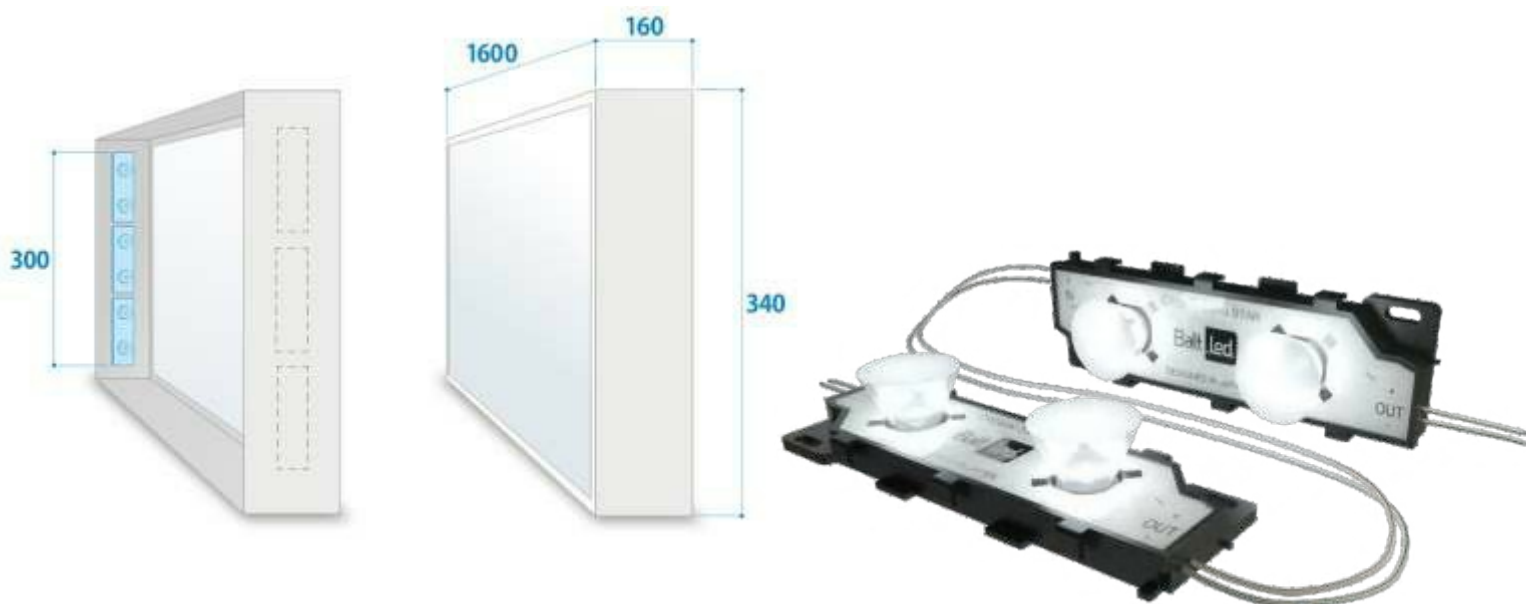
Applications:

- Double sided light boxes with depths over 140 mm
- Maximum height 2000 mm
- Bus shelters
- City lights

Other features:

- Long operating life - 60 000 h@L70
- High Efficiency over 110 lm/W
- Made in Japan
- IP - 66/67

TWIN NEW



Best for 140- 200 mm depth
double sided light boxes



450 lm 4,2 W IP 66 IP 67

Created for:

- Illuminate medium and big size double sided light boxes and signs
- Faster installation

Special features:

- Unique Optical Lens diffuser
- Powered by Phillips LED
- LM-80 LED certified
- Carbon fibre housing
- New technology PCB

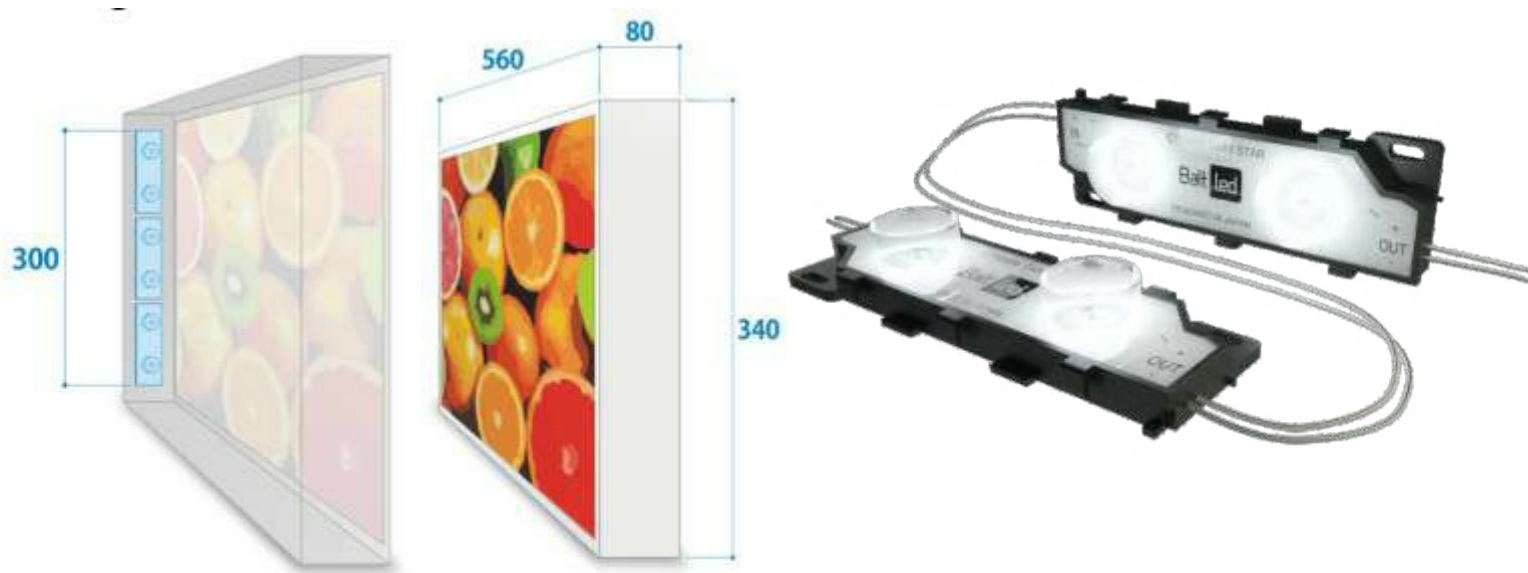
Applications:

- Double sided light boxes with depth over 140 mm
- Maximum height 2000 mm
- Bus shelters
- City lights

Other features:

- Long operating life - 60 000 h@L70
- High Efficiency over 105 lm/W
- Made in Japan
- IP - 66/67

EDGE NEW



Best for 80-140mm small and medium size double sided signs and light boxes



450 lm 4,2 W IP 66 IP 67

Created for:

- Illuminate small and medium size double sided light boxes and signs
- Faster installation
- Optimal use under 700 mm length size light box only with one side installation

Special features:

- Special acrylic double beam angle lens
- Powered by Phillips LED
- LM-80 LED certified
- Carbon fibre housing
- New technology PCB

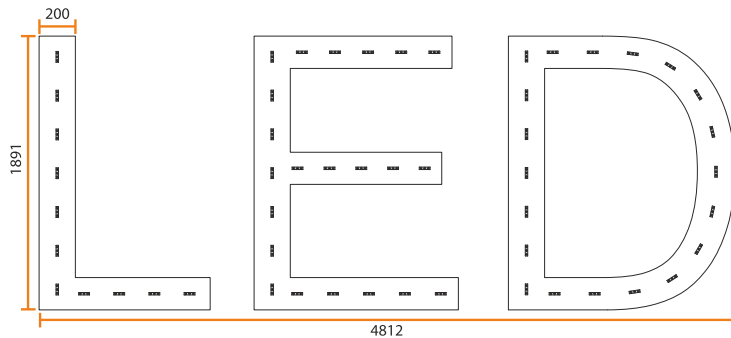
Applications:

- Small and medium size double sided light boxes
- Small and medium size signs
- Airport signs

Other features:

- Long operating life - 60 000 h@L70
- High Efficiency over 105 lm/W
- Made in Japan
- IP - 66/67

Q3 NEW



Best for 150-200 mm depth light boxes and channel letters



90 lm 1,5 W IP 67

Created for:

- Illumination of medium - big depth light boxes and channel letters
- Best for budget solution
- Faster installation
- Optimal for 150 - 250 mm depth illumination

Special features:

- Constant current controllers to insure led lifetime
- One hole installation saves 40% of time
- Bright Uniform illumination from 3 diode platform module

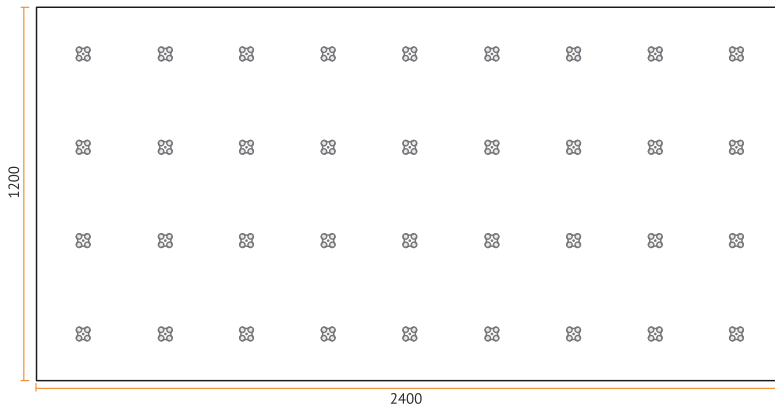
Applications:

- Big letters from 150 mm depth
- One sided light box from 200 mm depth
- High brightness letters from 100 mm depth

Other features:

- Operating life time - 25 000 h@L70 at 50°C
- High Efficiency over 90 lm/W
- High CRI > 75
- IP - 67

Q4 NEW



Best over 200 mm depth light boxes and big channel letters



90 lm 2 W IP 67

Created for:

- Illumination of medium - big depth light boxes and channel letters
- Best for budget solution
- Faster installation
- Optimal for 200-300 mm depth illumination

Special features:

- Constant current controllers to insure led lifetime
- Special and unique LED inside allows to cut between every single module
- Bright Uniform illumination from 4 diode platform module

Applications:

- Huge letters from 200 mm depth
- High Brightness Big letters from 150 mm depth
- High Brightness One sided light box from 200 mm depth

Other features:

- Operating life time - 25 000 h@L70 at 50°C
- High Efficiency over 90 lm/W
- High CRI > 75
- IP - 67

H41



Best for middle depth double sided light box



230 lm 2,2 W IP 66

- Lumens per module - 230 lm
- Power per module - 2,2W
- 700 mA Constant current driving system
- IC - Led protector inside
- Special Elliptical lens
- High Efficiency over 100 Lm/W
- Operating life – 45 000 h
- Depth starts only from 160 mm
- Solution for Bus station
- 5 Years Warranty based on 12h/day



LED (Crown DUO H41): 1344 pcs
Power (BP-C700-340): 96 pcs

H32

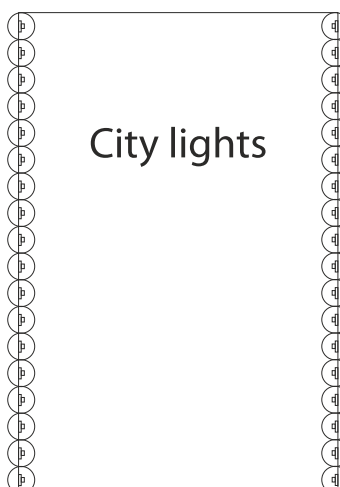


Best for middle depth double sided light box



107±4 lm 1,2 W IP 66

- Lumens per module - 107 lm
- Power per module - 1,2W
- 350 mA Constant current driving system
- IC - Led protector inside
- Special Elliptical lens
- High Efficiency over 90 Lm/W
- Operating life – 45 000 h
- Depth starts only from 120 mm
- 5 Years Warranty based on 12h/day



LED (Crown DUO H32): 36 pcs
Power (BP-C350-170): 3 pcs

R21



Best for big depth double sided light box



205 lm 2,4 W IP 66

- Lumens per module - 205 lm
- Power per module - 2,4 W
- 700 mA Constant current driving system
- IC LED protector inside
- Special Elliptical lens
- High Efficiency 85 Lm/W
- Operating lifetime – 25 000 h
- Depth starts only from 160 mm
- Solution for Bus station
- 3 Years Warranty based on 12h/day



LED (Crown DUO R21): 36 pcs
Power (BP-C700-340): 3 pcs

R13



Best for middle depth Double sided light box



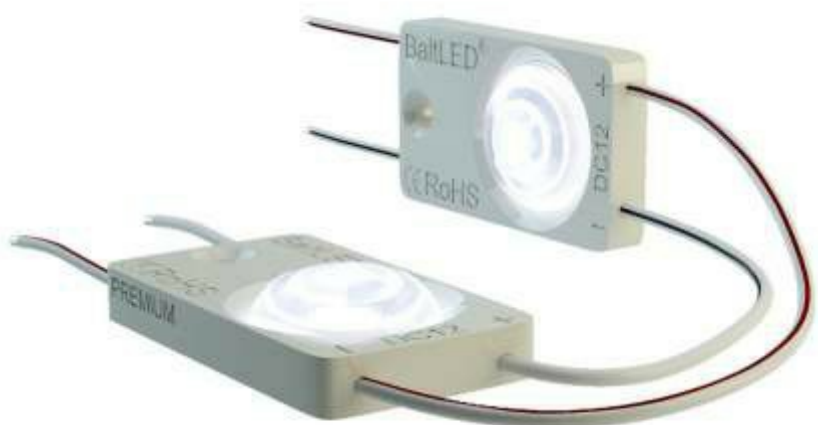
110 lm 1,2 W IP 66

- Lumens per module - 110 lm
- Power per module - 1,2 W
- 350 mA Constant current driving system
- Special Elliptical lens
- High Efficiency 90 - 92 Lm/W
- Operating lifetime – 25 000 h
- Depth starts only from 100 mm
- 3 Years Warranty based on 12h/day



LED (Crown DUO R13): 68 pcs
Power (BP-C350-170): 6 pcs

P14

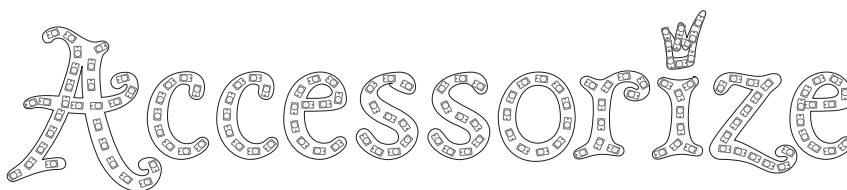


Best for small depth channel letters
and light box illumination



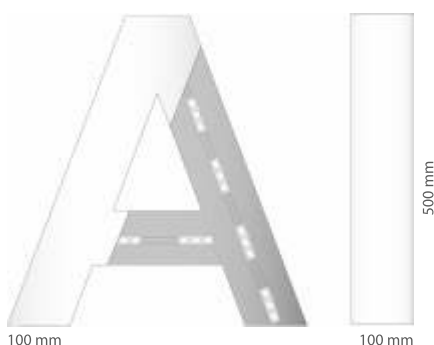
30-35 lm 0,35 W IP 67

- Lumens per module 32-35 lm
- Power per module - 0,35 W
- Constant current controllers
- High Efficiency 100 Lm/W
- Special optics angle - 160°
- One hole installation – 40% time saving
- Operating lifetime – 45 000 h
- Application Depth starts only from 30 mm
- 5 Years Warranty based on 12h/day



LED (Crown OPTO P14): 142 pcs
Power (BP-V12-600): 1 pcs

P25



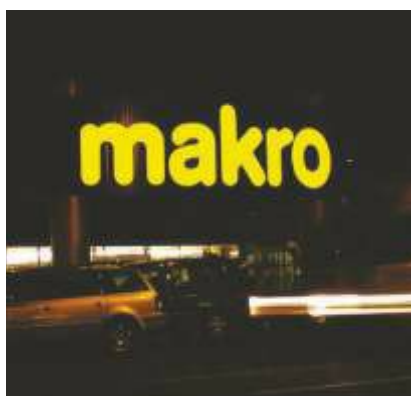
Special design for middle depth channel letters



58-62 lm 0,6 W IP 66

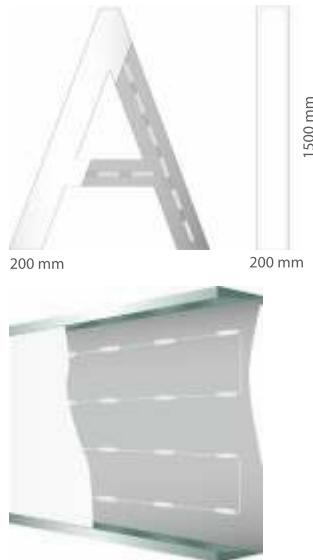
- Lumens per module 58 - 62 lm
- Power per module - 0,6 W
- Constant current controllers
- High Efficiency 100 Lm/W
- Special optics angle - 160°

- One hole installation – 40% time saving
- Operating lifetime – 45 000 h
- Powered by Nichia LED
- 5 Years Warranty based on 12h/day



LED (Snow PRO P25): 385 pcs
Power (BP-V12-1000): 2 pcs
(BP-V12-360): 1 pcs

S44



Best for deep depth One sided channel letters



120 lm 1,2 W IP 66

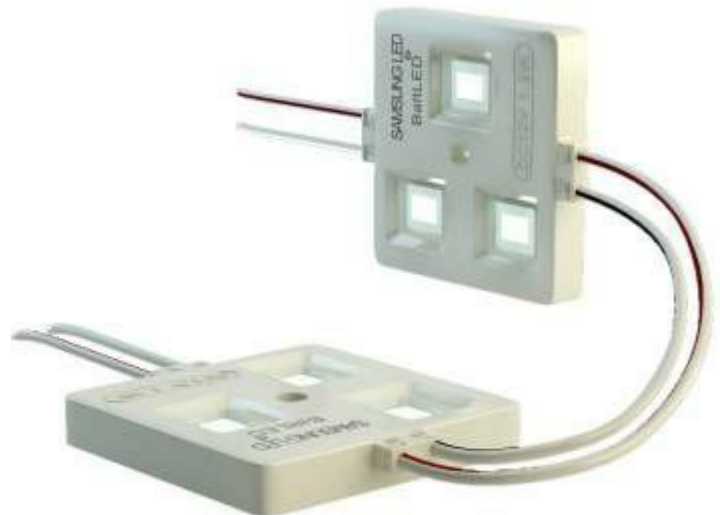
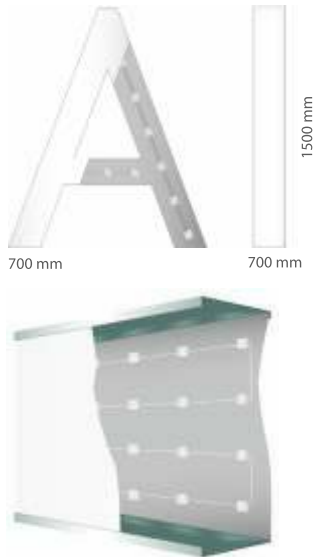
- Lumens per module - 120 lm
- Power per module - 1,2 W
- Constant current controllers
- Powered by Samsung LED
- High CRI - 85

- High Efficiency - 100 Lm/W
- Optimal depths over 200 mm
- Operating time - 45 000 h
- 5 Years Warranty based on 12h/day



LED (Snow PRO S44): 1310 pcs
Power (BP-V12-1000): 16 pcs

S45



Best for deep depth one sided
light box and channel letters



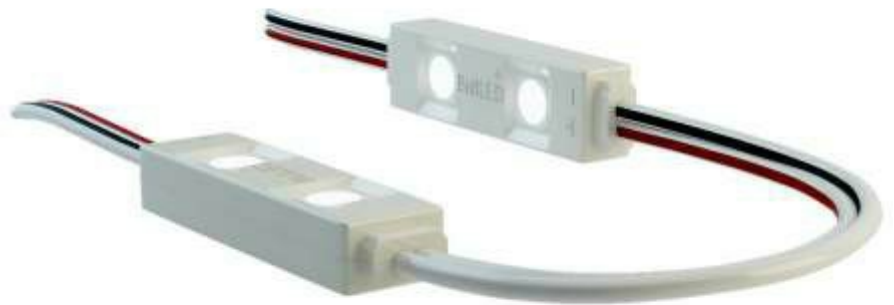
120 lm 1,2 W IP 66

- Lumens per module - 120 lm
- Power per module - 1,2 W
- Constant current controllers
- Powered by Samsung LED
- High CRI - 85
- High Efficiency - 100 Lm/W
- Optimal depths over 200 mm
- Operating time - 45 000 h
- One hole installation
- 5 Years Warranty based on 12h/day



LED (Snow PRO S45): 824 pcs
Power (BP-V12-360): 2 pcs
(BP-V12-600): 9 pcs; (BP-V12-1000): 5 pcs

Snow Mini S12



Best for small depth channel letters

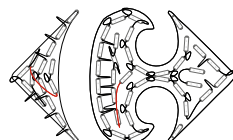
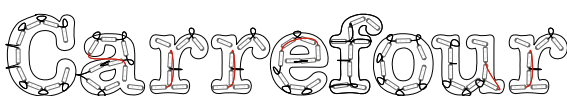


14,5 lm 0,3 W IP 66

- Lumens per module - 14,5 lm
- Power per module - 0,3 W
- Extremely small only 7 mm wide and 29 mm long

- Optimal depths 40 - 75 mm
- 3 Years Warranty based on 12h/day

Carrefour



Depth: 40 mm
LED (Snow Mini S12): 124 pcs
Power (BP-V12-600) - 1 pcs

S13



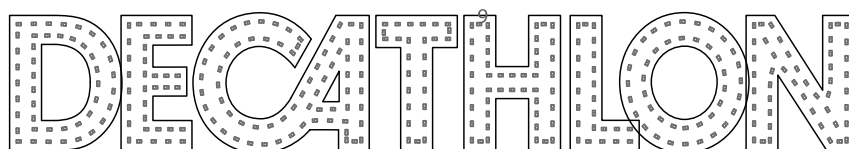
Best for small depth channel letters
and light box illumination



43-45 lm 0,5 W IP 67

- Lumens per module – 43 - 45 lm
- Power per module - 0,5 W
- Constant current controllers
- High Efficiency 86 - 90 Lm/W
- Special optics design for small depths - 160°
- One hole installation – 40% time saving
- Operating lifetime – 25 000 h
- Application depth starts only from 30 mm
- 3 Years Warranty based on 12h/day

DECATHLON



Depth: 70 mm
LED (Crown OPTO S13): 337 pcs
Power (BP-V12-1000) - 2 pcs

S23



Best for middle depth channel letters
and light box illumination



85-90 lm

1,0 W

IP 67

- Lumens per module – 85-90 lm
- Power per module - 1,0 W
- Constant current controllers
- High Efficiency 85 - 90 Lm/W
- Special optics design for small depths - 160°

- One hole installation – 40% time saving
- Operating lifetime – 25 000 h
- Application depth best for 90-150 mm
- 3 Years Warranty based on 12h/day



Depth: 70 mm
LED (Crown OPTO S23): 156 pcs
Power (BP-V12-600) - 1 pcs
(BP-V12-1000) - 1 pcs

Constant current output switching power supplies

Features:

- fully encapsulated with IP67 level (Note. 8)
- 5 years warranty based on 12h/day

PRODUCT	model		
		BP-C350-170	BP-C700-340
OUTPUT	constant current range	350 mA	700 mA
	voltage range	6~48 V	9~48 V
	rated power	16,8 W	36 W
INPUT	voltage range	180~264 VAC	90~264 VAC
	frequency range	47~63 Hz	47~63 Hz
	efficiency (typ.)	80%	80%
PROTECTION	over current	+	+
	over voltage	+	+
	over temperature	+	+
ENVIRONMENT	working temperature	-30~70°C	-30~70°C
SAFETY & EMC	safety standards	EN60950-1	EN60950-1
	EMC emission	EN55022, EN61000-3-2, EN61000-3-3	EN55022, EN61000-3-2, EN61000-3-3
	EMC immunity	EN61000-4-2,3,4,5,6,8,11, EN55024	EN61000-4-2,3,4,5,6,8,11, EN55024
OTHERS	dimension (mm)	140*30*22(L*W*H)	148*40*30(L*W*H)
	weight (kg)	0,175	0,34

PRODUCT	model				
		BP - V12-180	BP - V12-360	BP - V12-600	BP - V12-1000
OUTPUT	constant voltage	12 Vdc	12 Vdc	12 Vdc	12 Vdc
	current range	0-1,5 A	0-3,0 A	0-5,0 A	0-8,5 A
	rated power	18 W	36 W	60 W	102 W
INPUT	voltage range	180~264 VAC	90~264 VAC 127~370 VAC	90~264 VAC	90~264 VAC
	frequency range	47~63 Hz	47~63 Hz	47~63 Hz	47~63 Hz
	efficiency (typ.)	78%	84%	83%	85%
PROTECTION	over current	+	+	+	+
	over voltage	+	+	+	+
	over temperature	+	-	-	-
ENVIRONMENT	working temperature	-30~70°C	-30~65°C	-30~70°C	-25~70°C
SAFETY & EMC	safety standards	EN60950-1, EN61347-1, EN61000-3-3	EN60950-1	EN60950-1	EN60950-1
	EMC emission	EN55022, EN61000-3-2, EN61000-3-3	EN55022, EN61000-3-2, EN61000-3-3	EN55022, EN61000-3-2, EN61000-3-3	EN55022, EN61000-3-2, EN61000-3-3
	EMC immunity	EN61000-4-2,3,4,5,6,8,11, EN55024	EN61000-4-2,3,4,5,6,8,11, EN55024	EN61000-4-2,3,4,5,6,8,11, EN55024	EN61000-4-2,3,4,5,6,8,11, EN55024
OTHERS	dimension (mm)	140*30*22(L*W*H)	148*34*30(L*W*H)	162,5*42,5*32(L*W*H)	190*52*37(L*W*H)
	weight (kg)	0,175	0,34	0,4	0,63

Accessories

Wires connectors suitable for Baltled products

CONNECTOR IMAGE			
CONNECTOR CODE	BL-WC-UY2	BL-WC-UR2	BL-WC-U1B
SUITABLE CABLE DIAMETER	2,08 mm	2,08 mm	3,18 mm
AWG CABLE CROSS-SECTION	AWG 26-19 (0,14-0,65 mm ²)	AWG 26-19 (0,14-0,65 mm ²)	AWG 19-16 (0,65-1,31 mm ²)
OPERATING TEMPERATURE	-30 -120°C	-30 -120°C	-30 -120°C
IP CLASS	IP - 54	IP - 54	IP - 54
SPECIAL PROPERTIES	fully synthetic dimethyl silicone fluid	fully synthetic dimethyl silicone fluid	fully synthetic dimethyl silicone fluid
CONNECTORS IN BAG	100 pcs	250 pcs	100 pcs
BALTLED RECOMMENDATIONS	can be used to connect LED modules	can be used for cross connections because of three holes	can be used to connect power supply and LED modules

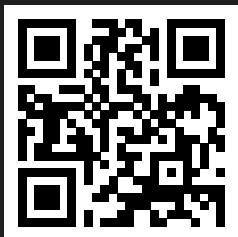


*we are recommending to use this BC-Tool with our connectors

Clients

We see each customer as a partner, therefore we appreciate your time and listen to your needs carefully. With the intention to offer you the best solutions available. We develop bespoke LED products based on your specific contract and project requirements. We offer a broad portfolio of products featuring high quality components, reliable technical support and after sales service with competitive prices. These are the features, advantages and benefits of working with Balt LED Lighting Solutions. We have been developing our business successfully for over 10 years and will continue in this direction.





www.baltled.com