



**TECHNICAL DATA SHEET - 50W LED Batten - PC**

Product Name /Description	6500K	4000K	3000K
Product Wattage	50W ± 10 %	50W ± 10 %	50W ± 10 %
Total Lumens	5000 ± 10 %	4500 ± 10 %	4500 ± 10 %
Efficacy (Lumen/Watt)	100 Lm/W ± 10 %	90 Lm/W ± 10 %	90 Lm/W ± 10 %
<b>LED Chip</b>			
LED Voltage	2.8 - 3.2 Vdc	2.8 - 3.4 Vdc	2.8 - 3.4 Vdc
LED Forward Current	60 mA	60 mA	60 mA
Colour Temp range	6500 ± 510K	6500 ± 510K	6500 ± 510K
Make	Runlite, Bridgelux, Everbrite, MLS, Seoul , Everstar ,Nationstar,Chnangfang	Runlite, Bridgelux, Everbrite, MLS, Seoul , Everstar ,Nationstar,Chnangfang	Runlite, Bridgelux, Everbrite, MLS, Seoul , Everstar ,Nationstar,Chnangfang
CRI	> 80	> 80	> 80
Working Life	25000 Hours	25000 Hours	25000 Hours
Junction Temp	115° C	115° C	115° C
Beam Angle	> 120°	> 120°	> 120°
Conformance to standard(LM80)	Yes	Yes	Yes
LED Package Detail	2835	2835	2835
LED datasheet	Attached	Attached	Attached
<b>MCPCB Details</b>			
MCPCB Thickness	0.8 mm ± 10 %	0.8 mm ± 10 %	0.8 mm ± 10 %
Copper Thickness	18 - 35 micron	18 - 35 micron	18 - 35 micron
PCB Type	MCPCB White Masking Single Sided	MCPCB White Masking Single Sided	MCPCB White Masking Single Sided
MCPCB Material (Grade)	1 TC	1 TC	1 TC
Nos. of LEDs	270 LEDs (0.2W)	270 LEDs (0.2W)	270 LEDs (0.2W)
Series /Parallel Combination	(30 Series X 3 Parallel) X 3	(30 Series X 3 Parallel) X 3	(30 Series X 3 Parallel) X 3
<b>Driver Electrical</b>			
Driver PCB thickness	1.6 mm ± 10 %	1.6 mm ± 10 %	1.6 mm ± 10 %
Driver Housing	Housing : PC Diffuser : PC	Housing : PC Diffuser : PC	Housing : PC Diffuser : PC
Driver Cover Material	Insulating Paper / Heatsink Sleeve	Insulating Paper / Heatsink Sleeve	Insulating Paper / Heatsink Sleeve
Driver Make	Inhouse (Silan Semiconductor Based )	Inhouse (Silan Semiconductor Based )	Inhouse (Silan Semiconductor Based )
Driver Isolation type	Non Isolated	Non Isolated	Non Isolated
Efficiency	> 88 %	> 88 %	> 88 %
Input Nominal Voltage	220 - 240 Vac	220 - 240 Vac	220 - 240 Vac
Operating Input Voltage Range	110 - 300 Vac	110 - 300 Vac	110 - 300 Vac
Frequency	50 Hz	50 Hz	50 Hz
Power Factor	> 0.95	> 0.95	> 0.95
THD	< 15 %	< 15 %	< 15 %
Input Current Rating	230 mA ± 10 %	230 mA ± 10 %	230 mA ± 10 %
Driver O/P Current	490-500 mA	490-500 mA	490-500 mA
Driver O/P Voltage Range	90 Vdc ± 10 %	90 Vdc ± 10 %	90 Vdc ± 10 %
Open Circuit Protection	Yes	Yes	Yes
Short Circuit Protection	Yes	Yes	Yes
Reverse Polarity Protection	Yes	Yes	Yes
Driver NO LOAD voltage	125 Vdc ± 10 %	125 Vdc ± 10 %	125 Vdc ± 10 %
High Voltage Cut Off	No	No	No
Low Voltage Cut Off	No	No	No
EMI /EMC compliance	No	No	No
BIS R – Number & Certificate	Varies Customer-wise	Varies Customer-wise	Varies Customer-wise
Electric Safety: Class 1 Insulation or Class 2 Insulation	Class 2	Class 2	Class 2
Potted Driver	No	No	No
Non-Potted Driver	Yes	Yes	Yes
Driver PCB Type/Material	FR4/CEM1	FR4/CEM1	FR4/CEM1
<b>Surge Protection Details</b>			
External	No	No	No
Internal / In-built in Driver	4 kV	4 kV	4 kV
<b>Product Housing Details</b>			
Housing Material	PC - CoExtrusion	PC - CoExtrusion	PC - CoExtrusion
Housing Back Cover Material	NA	NA	NA
Test Certificate of Raw Material	Attached	Attached	Attached
Impact Resistance (IK)	NA	NA	NA
Ingress Protection (eg. IP20/IP65/IP66)	IP20	IP20	IP20
Weight of Product (kg)	420 gm	420 gm	420 gm
Dimension (L X W X H) (mm)	(1100X 50 X 37) ± 2	(1100X 50 X 37) ± 2	(1100X 50 X 37) ± 2
Cut Out (mm)	NA	NA	NA
Frame Material	NA	NA	NA
<b>Luminaire Performance</b>			
Electrical Strength Test / Torsion Test	3.71 kV	3.71 kV	3.71 kV
Insulation Resistance	> 100 M ohm	> 100 M ohm	> 100 M ohm

CRI	> 80	> 80	> 80
High Voltage Withstand Capacity (V) (ex 380V, 440V) with time	440 V @ 10 Min	440 V @ 10 Min	440 V @ 10 Min
Highest TC point of Product	115° C	115° C	115° C
Operating Temperature range	0° C to +50° C	0° C to +50° C	0° C to +50° C
LM 79 from NABL Lab	NA	NA	NA
RoHS Compliance	No	No	No
Capacity to withold Surges	Yes, upto 4 kV	Yes, upto 4 kV	Yes, upto 4 kV
LM 80 + TM 21	Yes, Attached	Yes, Attached	Yes, Attached
Photobiological (In case of Bulb)	NA	NA	NA
Declared Life of the product along with condition in hours	25000 Hours	25000 Hours	25000 Hours
<b>Packing details</b>			
Mono Box Specification / Blister Card	Varies Customer-wise	Varies Customer-wise	Varies Customer-wise
Master Box Specification	Varies Customer-wise	Varies Customer-wise	Varies Customer-wise
Case Lot	20 pcs	20 pcs	20 pcs
Gross weight	11 kg	11 kg	11 kg
Net weight	8.6 kg	8.6 kg	8.6 kg
Product Photo			
<b>Mounting details</b>			
Surface	NA	NA	NA
Recessed	NA	NA	NA
Suspended	NA	NA	NA
<b>Visor Type with Material</b>			
Diffuser	Diffuser, White PC, Attached	Diffuser, White PC, Attached	Diffuser, White PC, Attached
Glass	NA	NA	NA
Reflector	NA	NA	NA
Optics Lens	NA	NA	NA
<b>Hardware Details with Material</b>			
Screw Type	M 3 x 22 Philips Head	M 3 x 22 Philips Head	M 3 x 22 Philips Head
Spring	SS, C - Type	SS, C - Type	SS, C - Type
Mounting Clip	NA	NA	NA
Wire Cable (PVC/Rubber), 3 Core, 5 Core (sq mm) / Eyelet Height	2 Core, 24/36 White Sleeve 180mm -0.75 Sq mm	2 Core, 24/36 White Sleeve 180mm -0.75 Sq mm	2 Core, 24/36 White Sleeve 180mm -0.75 Sq mm
Wire Cable Connector / Eyelet Material	NA	NA	NA
<b>Powder Coating Details</b>			
Powder Coating Shade(RAL number)	NA	NA	NA
Powder Coating Thickness	NA	NA	NA