



# TECHNICAL DATASHEET

Doc. No.	LE/TDS/1002
Issue Date	
Rev. No.	
Rev. Date	

Supplier Name:	LIGHTING ENGINEERS
Supplier Address:	Gala No 6 & 7, Vora Industrial Estate No 2, Navghar Vasai East 401210
Product Description:	20w Cube X GateLIGHT
Applicable Standard (Optional) :	

<b>1 Product Details</b>			
1.1 Rated Voltage & Freq. Ratings	220-240V AC, 50Hz		
1.2 Input Wattage	20WATT ± 10%		
1.3 Total Lumens	>1000 ± 10%		
1.4 Efficacy (Lm/W)	50lm/W ± 10%		
1.5 Beam Angle	-		
1.6 Power Factor	>0.95		
1.7 Product Class (Class I & Class 2)	Class 2	Product ta:	45°C

<b>2 LED Details</b>			
2.1 LED Part No.	ES-2835-0503V-L2-865		
2.2 LED Voltage (V)	2.8V-3.6V	LED Wattage	0.5W
2.3 LED Driving Current (mA)	150mA	LED Type	SMD
2.4 Colour Temp Range (CCT)	3000K, 4000K, 6500K ±10%	CRI	>80
2.5 LED Make	EVERSTAR		
2.6 Lumen Binning	120		
2.7 Junction Temp (tj °C)	115		
2.8 LED Package Details	2835		
2.9 LED Photobiological Risk Group	-		

<b>3 LED MPCB/FR4/FLEX/COB</b>			
3.1 LED MPCB/FR4/COB - Part No.	20W CUBEX GATELIGHT		
3.2 LED MPCB/FR4/COB - Size ( L X W X H ) mm	138mm X 138mm X 1mm		
3.3 LED MPCB/FR4/COB - Thickness (mm)	1mm		
3.4 Copper Thickness (µm)	25		
3.5 PCB Type (MC/FR/FLEX..)	MC		
3.6 PCB Material (Grade)	MC		
3.7 Series /Parallel Combination	3P20S	No of LEDs	60
3.8 Voltage Drop / Meter in Flex strip/ Rope Light			
3.9 Lumen/ Meter in Flex Strip/ Rope Light			
3.9A LED PCB /Flexi strip Mounting provision			

<b>4 Driver</b>			
4.1 Driver Code / Part No.	SM-1825PF		
4.2 Driver Make	CHINA		
4.3 Driver Class (Class 1 & Class 2)	Class 2		
4.4 Driver PCB Thickness	1mm ± 10%		
4.5 Driver PCB Type/Material	FR4		
4.6 Driver Housing / Heat Sink material	-		
4.7 Driver Top / Bottom Cover Material / Colour	-		
4.8 Powder Coat (RAL Colour)	-		
4.9 Plastic ( Vergin + Master batch Colour )	-		
4.10 Driver Type	-		
4.11 Driver IP Rating	IP65		
4.12 Driver enclosure (GI/CRCA/Plastic/Aluminium Casing )	Alluminium casing		
4.13 Rated Input Power (W)	20 WATT ± 10%		
4.14 Rated Input Voltage (VAC)	AC85V~265V		
4.15 Rated Input Current (mA)	0.088A		
4.16 THD %@Rated Input Power	<10%		
4.17 Driver O/P Current (mA)	300mA ± 10%		
4.18 Driver O/P Voltage Range	DC 36-80V		
4.19 Efficiency ( % )	>87%		
4.20 Operating Input Voltage range	AC140-300V		
4.21 Driver (ta/tc/tw)	ta: 45°C	tc: 85°C	tw:
4.22 High Voltage Protection (@Voltage with time)	440V WITH 2HOURS TIME		
4.23 Low Voltage Protection(@Voltage with time)	100V WITH 2HOUR TIME		
4.24 Protection	4KV	Other	
4.25 Driver No Load output Voltage	98VOLT		
4.26 High Voltage Cut Off	NO CUT OFF		
4.27 Low Volatage Cut Off	NO CUT OFF		
4.28 Surge Protection (CM/DM)	4KV		
4.29 Mains Cable Length/ wire Colour	3CORE PVC 0.5mm2 340mm(165mm outside body)		
4.3 EMI /EMC compliance			

<b>5 Product Details</b>			
5.1 Housing Material detail	PC Black Vergin		
5.2 Housing Back Cover Material	PC Black		
5.3 Housing Colour Shade/ Make/RAL Code	Black		
5.4 Impact Resistance ( IK )	-		
5.5 Ingress Protection(eg. IP20/IP65/IP66)	IP65		

5.6	Product Weight (kg)	440g ± 20g
5.7	Dimension (L X W X H) mm	148mm X 148mm X 145mm
5.8	O.D. X I.D. mm	-
5.9	Cut Out Dia (mm)	-
5.10	Frame Material	-
<b>6 Lense / Diffuser / Glass Details</b>		
6.1	Lense type / material / make	-
6.2	Lense Dimensions ( L X W X H X TH X OD X ID ) / Beam Angle	-
6.3	Diffuser type / material / make	PC Clear Vergin
6.4	Diffuser Dimensions ( L X W X H X TH X OD X ID ) / Beam angle	148mm*148mm*75mm
6.5	Glass type / material / make	-
6.6	Glass Dimensions ( L X W X H X TH X OD X ID ) / Beam angle	-
6.7	Diffuser Transprancy ( Diffused/Clear )	-
<b>7 Luminaire Performance</b>		
7.1	Electrical Strength	3.75KV for 60 sec-PASS
7.2	Product IP Rating	IP65
7.3	Insulation Resistance (MΩ)	500V for 60 sec-PASS
7.4	CRI / SDCM / UGR	>80
7.5	High voltage Withstand Capacity 350/380/440V(@Voltage with time)	440V for 2Hour pass
7.6	Highest TC point of Product	-
7.7	Operating Temp Range	-10°C to 45°C
7.8	Capacity to withstand Surges	4KV
7.9	Rated Life / Failure Fraction	>20000Hrs
7.10	Declared Life of the Prod. along with condition in Hrs./Duty Cycle	-
<b>8 Hardware and Accessories</b>		
8.1	Screw Type / Size / Make	MS CSK 3x5,MS CSK 3x8, MS CSK 5x25mm
8.2	Toggle type/clamp / material grade / make	MS CLAMP
8.3	Brackets material / Size / Make	-
<b>9 Finish</b>		
9.1	Powder Coating (RAL number)/ Plastic (Virgin+master batch) Shade Card	-
9.2	Powder Coating Thickness	-
9.3	Granuals Code/ Make	-
9.4	Finish Colour 1 /Colour 2	-

Supplier Representative Sign:		Approver Sign	
Name: Hasan Attar		Name:	
Date:		Date:	



Photo