

# SPECIFICATION

Technical Parameters				Technical chart	
Product model	XD-ST-31150	Product size	660*300*90mm	Picture	Line Plot
<b>Description</b>	material:the main structure is aluminum,the surface electrostatic spray embalmed,high-strength,dust-proof, water-proof .new silicone rubber seals,high temperature resistance above 250 degrees.excellent thermal design, efficient optical design. Using the reflective lens model, effectively improve the luminous efficiency of lamps.				
<b>Item</b>	<b>Technical parameters</b>			<b>Detail of Osram 3030 150watt Meanwell driver LED street light</b>	
<b>Driver</b>	Driver	MEANWELL HLG 150H-36A			
	Input voltage	100-240V			
	Frequency range	50/60Hz			
	Input Power	151.2W			
	Power Factor	0.973			
	Power Efficiency	93.5%			
	Output Voltage	36V			
<b>Light Source</b>	Output Current	0~4.20A±1.0%			
	Working Temperature	-40°C~+90°C			
	Model	OSRAM 3030 chip			
	IF	150mA			
	VF	6V			
	Power	150W			
	Ra	≥80Ra			
	Luminous/W	complete fixture 118.9Lm/W			
	CCT	6500K			
	Light Power	148.5W			
<b>Photometrical</b>	Working Temperature	-40°C~+110°C			
	Light beam	101.0°			
	luminous flux	17971Lm			
	Light out efficiency	92.0%			
<b>Electrical</b>	Insulation class	CLASS II			
	IP Grade	IP 65			
	Products Standard	UL8750,EN/AS/NZS61347-1,PSE J61347-1,J61347-2-13, GB19510.14,GB19510.1,EAC TP TC 004 approved, UL1012,UL82368-1,BIS IS15885,EN55015,EN55032 CLASS B,EN61000-3-2 CLASS C,EN61000-3-3, EN61000-4-2,3,4,5,6,8,11,EN61547,GB17743,GB17625.1, EAC TP TC 020			
<b>Other</b>	Working temperature	-20°C~+50°C			
	Working humidity	10%-90%RH			

### MGA LED STREET LIGHT

- Cover** high-purity aluminum corrosion resistance impact resistance
- Heatsink** Using high Purity aviation aluminum high thermal conductivity , anode processing, electrostatic painting process.
- Driver** MEANWELL HLG 150H-36A Warranty : 5 years
- LED Chip** OSRAM 3030;single 130LM/W for chip; complete fixture 118.9Lm/W
- LENS** High transmittance PMMA material,the Light transmittance of more than 98%
- Aluminum plate thickness** 1.6mm(efficient index of thermal conductivity reach 2.0, normal is 1.0)
- Waterproof connectors** High temperature resistance:105°C and the size for:3.\*1.04mm with the VDE Certification

### Light distribution

Unit: cd  
Average Diffuse Angle(50%): 101.0°

— C0-C180 — C90-C270 — G54

**MEANWELL OSRAM** 130LM/W

**5 YEARS WARRANTY**

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<b>Driver</b>	Driver	MEANWELL HLG 150H-36A		<p>LENS:Self design LENS,PMMA with high Light transmittance 98% Waterproof: IP65</p> <p>LED Chip: OSRAM 3030;single 130LM/W for chip <b>OSRAM</b></p> <p>Aluminum plate thickness:1.6mm (efficient index of thermal conductivity reach 2.0, normal is 1.0) Effective thermal conductivity index 3.0</p> <p>Material: Aviation aluminum</p> <p>Waterproof connectors Size:3*1.04mm High temperature resistance:105°C VDE Certification</p> <p>Driver: MEANWELL HLG 150H-36A Warranty:5 Years</p> <p>PG7 Waterpro of screw</p>	
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 Average Diffuse Angle(50%): 101.0°  
 — C0-C180 — C90-C270 — G54

**MEANWELL** 130LM/W  
**OSRAM**  
 5 YEARS WARRANTY



- Features :
- Type 2 component assemblies
  - Line to Ground&Line to Line protected
  - Parallel(3 wires) connection style
  - LED status indicator
  - Suitable for LED driver surge protection
  - IP67 design for indoor or outdoor installations



**SPECIFICATION**

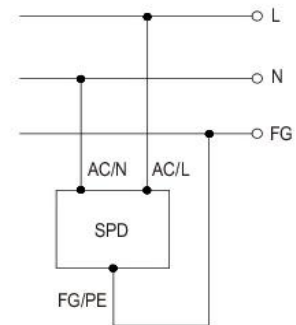
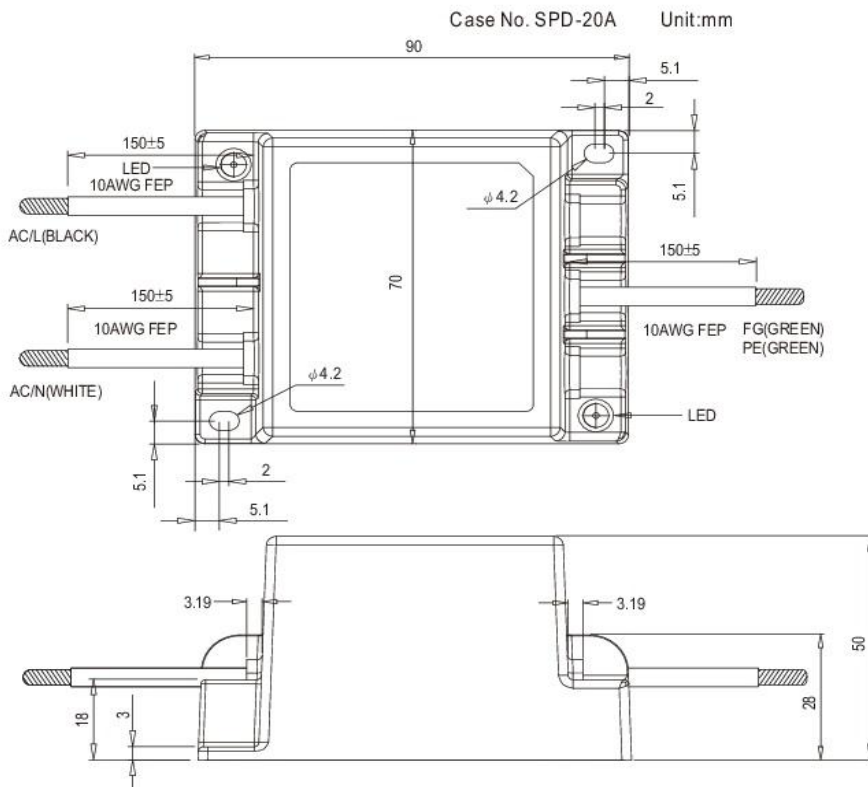
MODEL	SPD-20-240P	SPD-20-277P
OPERATING VOLTAGE	240VAC 50/60Hz	277VAC 50/60Hz
MCOV(MAX. CONTINUOUS OPERATING VOLTAGE)	300VAC	320VAC
UC(MAX. CONTINUOUS OPERATING VOLTAGE)Note.4	300VAC	-----
VPR (VOLTAGE PROTECTION RATING)	1500V(L-FG,N-FG,L-N)	-----
UP (VOLTAGE PROTECTION LEVEL)Note.5	1500V(L-PE,N-PE,L-N)	-----
IN (NOMINAL DISCHARGE CURRENT)	5kA	-----
MAX. SURGE CURRENT(8/20us)	20kA	-----
I <sub>max</sub> . (MAX. DISCHARGE CURRENT) Note.6	20kA	-----
SCCR (SHORT CIRCUIT CURRENT RATING)Note.3	5kA	-----
SHORT-CIRCUIT WITHSTAND Note.7	1.5kA	-----
RESPONSE TIME	<25ns	-----
WITHSTAND Note.1	1600VAC 1minutes	-----
OPERATING TEMPERATURE	-40 ~ +70°C	-----
SAFETY STANDARDS	UL1449(Third Edition),CS22.2 NO.8,EN61643-11(only SPD-20-240P) approved	
DIMENSION	90*70*50mm (L*W*H)	
PACKING	0.39Kg; 18pcs/8Kg/0.84CUFT	

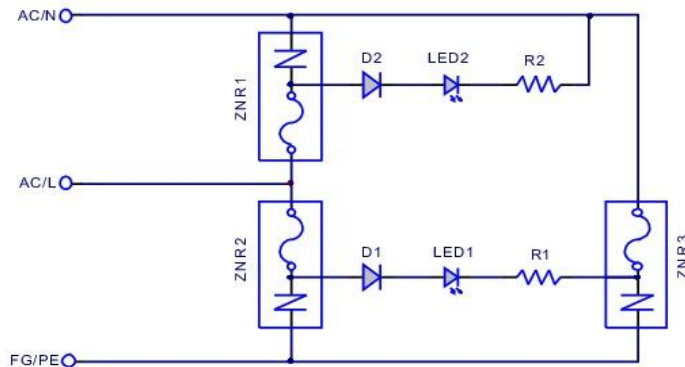
**NOTE**

1. Varistors are to be removed during this test
2. Note. 4, Note. 5, Note. 6, Note. 7 are for EN61643-11(SPD-20-240P)
3. These devices have been subjected to Surge Testing and Current Test-short Circuit Current Rating by employing a class J Fuse Rated 30A and minimum 600VAC.

■ **Mechanical Specification**

■ **CONNECTIONS**



**■ Circuit Diagram****■ INSTALLATION**

1. This document provides detailed information on how to install and operate the SPD-20 of Surge Protective Devices (SPDS).
2. The SPD-20 of Surge Protective Devices are installed/connected in parallel with the line of TN System
3. Incorrect installation may significantly impair the performance of the SPD. It is particularly important that all installation procedures and guidelines be followed exactly.
4. Before starting any installation procedures, verify service voltage (AC or DC) with a volt meter to ensure that the correct model has been selected for the supply voltage.
5. DO NOT INSTALL THE SPD IF MEASURED VOLTAGE EXCEEDS UNIT RATINGS.
6. REMOVE POWER FROM ELECTRICAL SYSTEM PRIOR TO INSTALLATION.
7. ENSURE THAT ALL CONNECTIONS ARE CORRECT BEFORE ENERGIZING.
8. Apply power (energize), LED indicator should illuminate. If LED is out, the SPD requires service.
9. Never install on an ungrounded system.

**⚠ DANGER****HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Thoroughly read and comprehend all instructions before commencing installation.

This equipment must be installed by qualified electrical personnel in accordance with all applicable codes which supersede these instructions.

Improper installation or misapplication of these devices may result in death or serious injury.

Failure to follow these instructions could result in damage to the electrical system(s) or related equipment.

**⚠ CAUTION****HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Never install this unit if it has fallen, has been dropped or looks damaged in any way. Return device to factory for diagnostic testing.