

Power Supply



ICL-SWPU-320W-24V

CONSTANT VOLTAGE POWER SUPPLY - NON-DIMMING

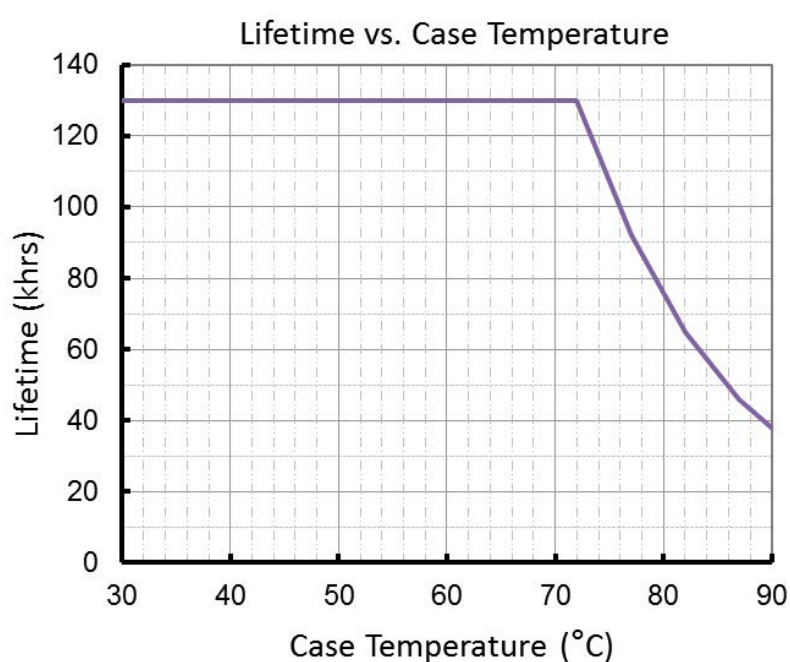
Introducing our cutting-edge 24V LED drivers, designed to redefine lighting solutions. With an IP67 rating, they are built to withstand the toughest conditions, ensuring durability and longevity. Our drivers offer DALI compatibility, enabling precise control and customisation of your lighting environment. Featuring push-to-dim and on-off functionalities, they cater to diverse lighting needs. With an astonishing 100,000 hour lifespan, these drivers guarantee lasting performance, while their flicker-free technology ensures a soothing and eye-friendly illumination experience. Elevate your lighting projects with reliability, versatility and quality - choose our 24V LED drivers for a brighter and sustainable future.

Watts:	320W
IP Rating:	IP67
Voltage:	24V DC
Input Voltage:	90 ~ 305 V
Input Frequency:	47~ 63Hz
Input Current:	2.9A max @ 120 Vac & Full-Load 1.5A max @ 220 Vac & Full-Load
Input Under Voltage:	Shut down and auto-restart
Output:	24V : 0A (min) - 13.3A (max)
Output Over Current:	120% I _o , typ.
Leakage Current:	1mA max @ 277 Vac 60Hz, UL8750, 0.75mA max @ 220 Vac 50Hz, IEC61347-1
Operating Temperature:	-40°C to +90°C
Storage Temperature:	-40°C to +85°C
Great Surge Immunity:	10kV
Net Weight:	1600g
Life:	100,000 hours @ T _c ≥ 75°C
Warranty:	7 years
Dimensions:	225 x 68 x 38.5mm (including end caps)
Power Factor:	>0.9 @ 60-100% load, refer to PF vs load curve
THD:	<15% @ 60-100% load, refer to THD vs load curve
Surge Protection:	Line to line 6kV, line to ground 4kV, IEC 61000-4-5
Voltage Accuracy:	±3% V _o
Setup Time:	1.2 seconds max
Overshoot:	10% V _o , max
Short Circuit:	Auto Recovery. The output recovers when short is removed

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Over Temperature	Turn off output when $T_c \geq 105 \pm 10^\circ\text{C}$ Auto recovery when $T_c \leq 70 \pm 10^\circ\text{C}$
MTBF	$\geq 280,000$ @ $T_c \geq 75^\circ\text{C}$ (MIL - HDBK - 217F)
Case Temperature	90°C max
UL Class:	P, ENEC/CB/CCC SELV Output
Safety:	According to EN 61147-1, 61347-2-3, 61347-2-13, 62384
Class II:	Available
Input Over Voltage Protection:	Optional
IEC 61347-1	Lamp control gear Part 1 - general safety requirements
IEC 61437-2-13	Lamp control gear part 2-13 - particular requirement for d.c or a.c supplied electronic control gear for LED modules
IEC 55015	Conducted emission test & radiated emission test
IEC 61000-3-2	Harmonic current emissions - Class C
IEC 61000-3-3	Voltage fluctuations & flicker
IEC 61000-4-2	Electrostatic discharge (ESD) : 8kV air discharge, 4 kV contact discharge
IEC 61000-4-3	Radio frequencyelectromagnetic field susceptibility (RS)
IEC 61000-4-4	Electrical fast transient (EFT)
IEC 61000-4-5	Surge immunity test
IEC 61000-4-6	Conducted radio frequency disturbances test (CS)
IEC 61000-4-8	Power frequency magnetic field test
IEC 61000-4-11	Voltage dips
IEC 61547	Electromagnetic immunit requirements applies to lighting equipment

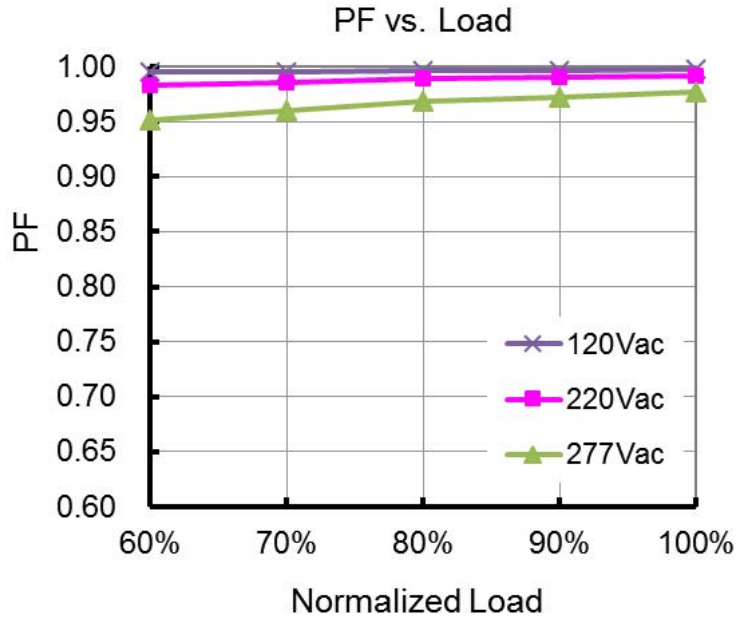
Lifetime vs. Case Temperature



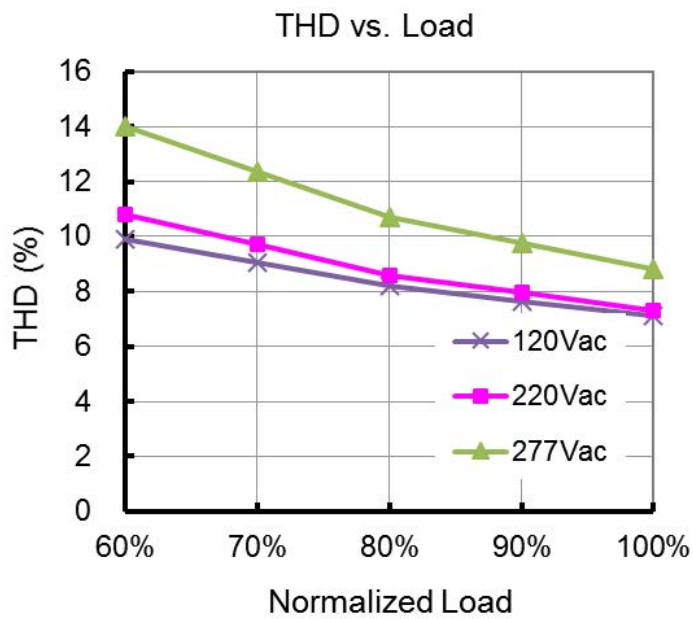
End of Life: Maximum Failure Rate = 10%

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Power Factor vs. Load

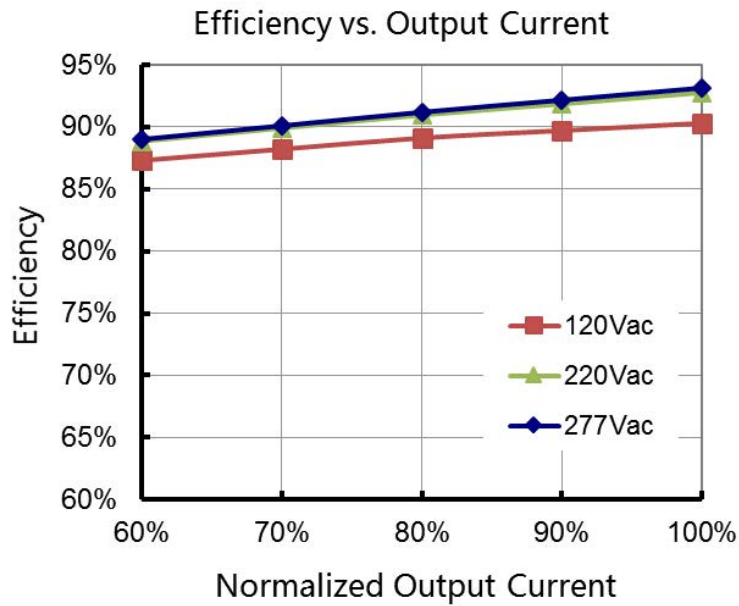


THD vs. Load

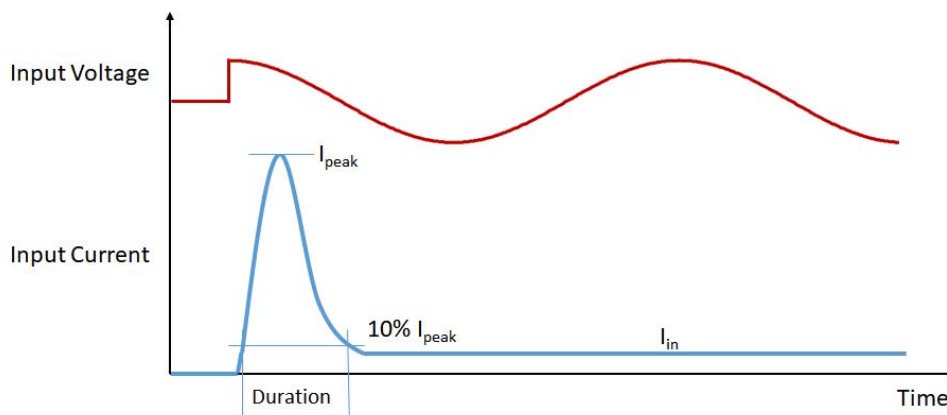


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Efficiency vs. Output Current



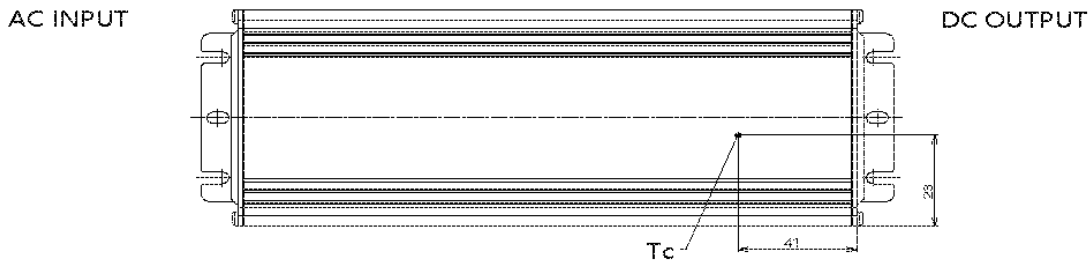
Inrush Current



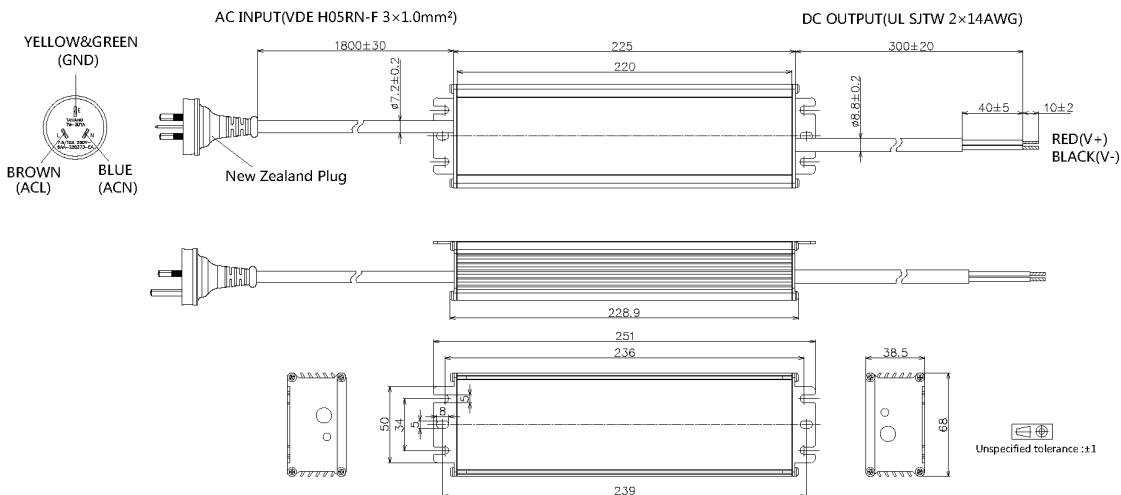
Input Voltage 120Vac:	I _{peak} : 16.6A, Duration: 4.28mS
Input Voltage 220Vac:	I _{peak} : 31.2A, Duration: 3.88mS
Input Voltage 277Vac:	I _{peak} : 39.8A, Duration: 3.80mS

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Tc Point



Wiring Diagram



CAUTION:
Risk of electric shock

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