



Indoor-Outdoor Standard LED Power Supplies

- Constant voltage design
- High efficiency, high reliability, long lifetime
- Working temperature: -25°C~+50°C
- Protections: Overload, over voltage, short-circuit
- Universal AC input / full range
- IP67 design for outdoor installation
- 100% full load burn-in test

		810153	850150	810302	850300	810604	850601	811004	851000	811504	851500	812000	852000				
OUTPUT	DC Voltage	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V				
	Rated Current	1.25A	0.63A	2.5A	1.25A	5A	2.5A	8.33A	4.17A	12.5A	6.25A	16.67A	8.34A				
	Current range	0–1.25A	0–0.63A	0–2.5A	0-1.25A	0–5A	0–2.5A	0–8.33A	0–4.17A	0~12.5A	0~6.25A	0–16.67A	0-8.34A				
	Rated power	15W	15W	30W	30W	60W	60W	100W	100W	150W	150W	200W	200W				
	Ripple & Noise(max.) ⁴	120mVp-p	240mVp-p	120mVp-p	240mVp-p	120mVp-p	240mVp-p	120mVp-p	240mVp-p	120mVp-p	240mVp-p	120mVp-p	240mVp-p				
	Voltage tolerance ³	±4%	±2%	±4%	±2%	±4%	±2%	±4%	±2%	±4%	±2%	±4%	±2.0%				
	Line regulation	±1%	±0.5%	±1%	±0.5%	±1%	±0.5%	±1%	±0.5%	±1%	±0.5%	±1%	±0.5%				
	Load regulation	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%	±1%	±2%	±1%	±2%	±1%	±2%	±1%				
	Output groups	1	1	1	1	1	1	1	1	1	2	1	2	1			
	Set up time ⁶	2000ms, 50ms(at full load) 110VAC/230VAC															
Holding time(Typ.)	15ms(at full load) 110VAC/230VAC																
INPUT	Voltage Range ²	90~305VAC or 127~432VDC									90~264VAC or 127~374VDC						
	Frequency Range	47~63Hz															
	Power Factor (Typ.)	PF≥0.50/110V (at full load) PF≥0.45/230V (at full load)															
	Efficiency (Typ.)	83%	85%	84%	85.5%	87%	88%	86%	88%	88%	89%	88%	90%				
	AC Current	0.35A/110VAC	0.17A/230VAC	0.70A/110VAC	0.35A/230VAC	1.35A/110VAC	0.65A/230VAC	1.89A/110VAC	1.00A/230VAC	3.25A/110VAC	1.72A/230VAC	3.1A/110VAC	1.6A/230VAC				
	Inrush Current (Typ.)	Cold start: 50A/230VAC			Cold start: 55A/230VAC						Cold start: 60A/230VAC						
	Leakage current	<0.75mA/240VAC									<0.75mA/120VAC		<0.75mA/240VAC				
PROTECTION	Over Load	104%-145% of rated output power		110%-145% of rated output power		102%–130% of rated output power		110%–130% of rated output power		104%–125% of rated output power		104%-120% of rated output power					
		Protection mode: constant current limiting, recovers automatically after load is reduced															
	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed															
	Over Voltage	13.5-18.0V	24.5-35.0V	13.0-18.0V	24.5-35.0V	13.0–18.0V	24.5–35.0V	13.0–18.0V	24.5–35.0V	13.0–18.0V	24.5-35V	13.0–18.0V	24.5-35V				
		Protection type: Hiccup mode, recovers automatically after fault conditions removed															
	Over Temperature	100°C±10°C (RTH2)					Ta: 55°C–65°C										
	Protection type: Shut down O/P voltage, recovers automatically after temperature goes down																
ENVIRONMENT	Working Temperature	-25°C~+50°C															
	Working Humidity	10%~90%RH, non-condensing															
	Storage Temp., Humidity	-25°C~+75°C, 5%~95%RH															
	Temp. Coefficient	±0.05%/°C (0~40°C)											±0.05%/°C (0~50°C)				
	Vibration	10–300Hz, 1G 10min./cycle, period for 60 min. each along X, Y, Z axes															
SAFETY & EMC	Safety Standards	Compliance to UL8750, EN61347-1, EN61347-2-13, IP67 waterproof rating									UL8750, IP67	UL8750, EN61347-1, EN61347-2-13, IP67	UL8750, IP67				
	Withstand Voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.875KVAC O/P-FG: 0.5KVAC															
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25°C/70%RH															
	EMC Emission	/															
	EMC Immunity	/															
OTHERS	MTBF	≥200K hrs., MIL-HDBK-217F (25°C)															
	Dimensions	5.83 L x 1.01 W x 1.093 in. H (148 L x 25.5 W x 27.5mm H)			5.35 L x 1.78 W x 1.06 in. H (135.7 L x 45 W x 26.9mm H)			8.27 L x 2.82 W x 1.8 in. H (143.7 L x 47 W x 33.8mm H)			8.27 L x 2.82 W x 1.8 in. H (210 L x 71.5 W x 45.5mm H)			10.08 L x 2.66 W x 1.7 in. H (256 W x 67.5 W x 43mm H)		9.65 L x 3.74 W x 1.7 in. H (245 L x 95 W x 43mm H)	

Note: ¹ All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

² Derating may be needed under low input

voltages. Please check the static characteristics for more details.

³ Tolerance: includes set up tolerance, line regulation and load regulation.

⁴ Ripple & noise are measured at 20MHZ of bandwidth by using twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.

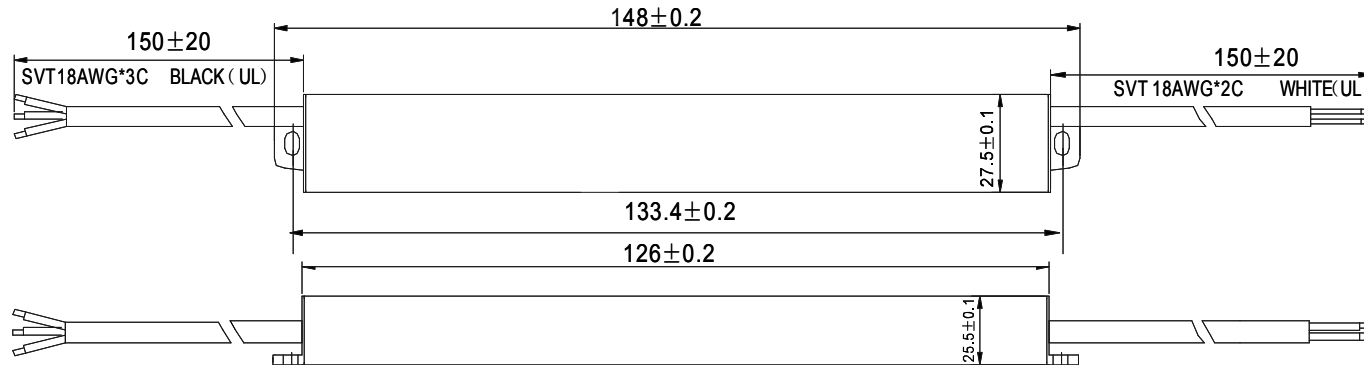
⁵ The power supply is considered as a component

that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-confirm EMC

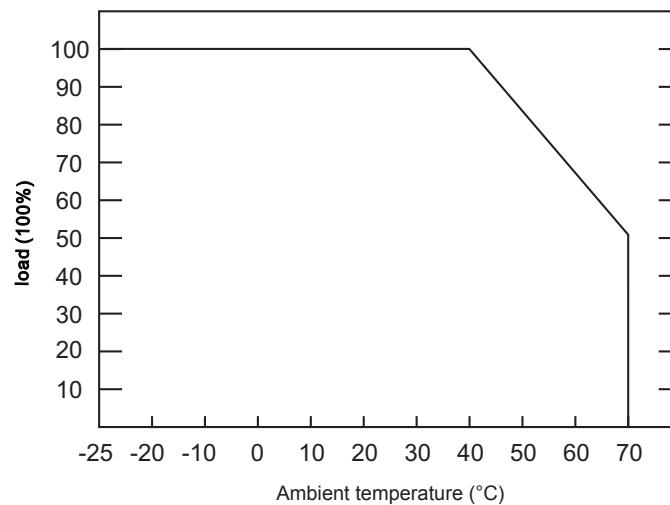
Directive on the complete installation.

⁶ The start time was tested under the situation of cold star, continuous switching on/off may raise the start time.

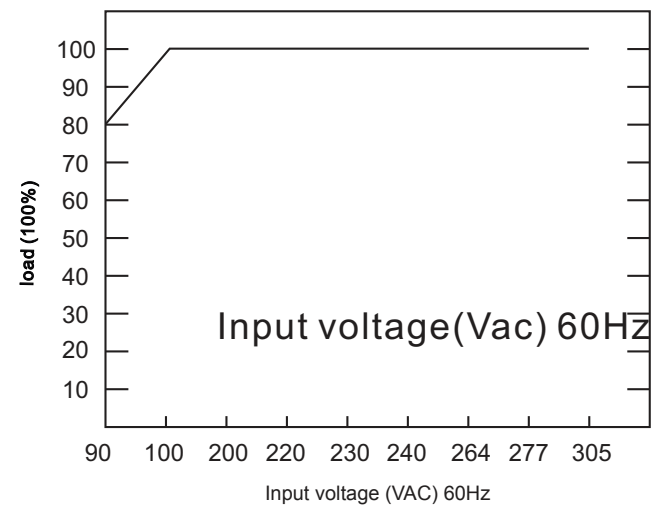
■ **MECHANICAL SPECIFICATION** Units: mm



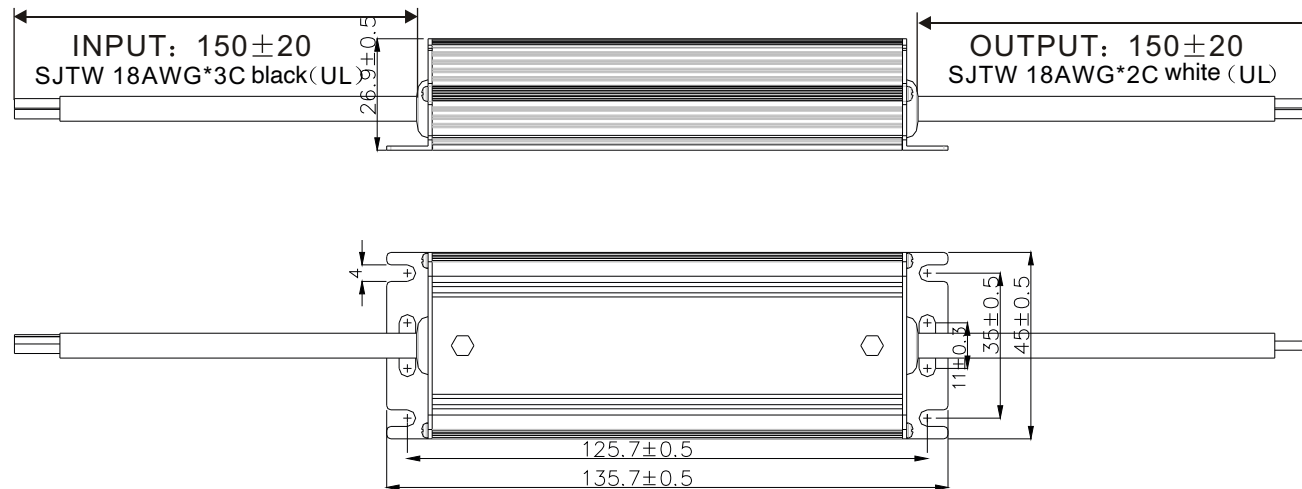
■ **DERATING CURVE**



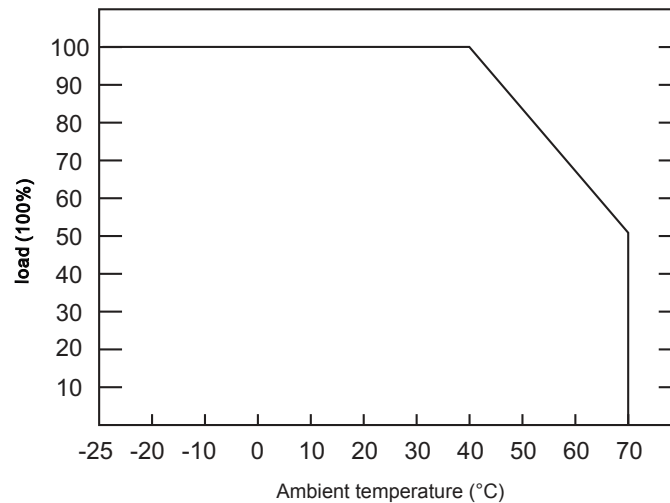
■ **STATIC CHARACTERISTICS**



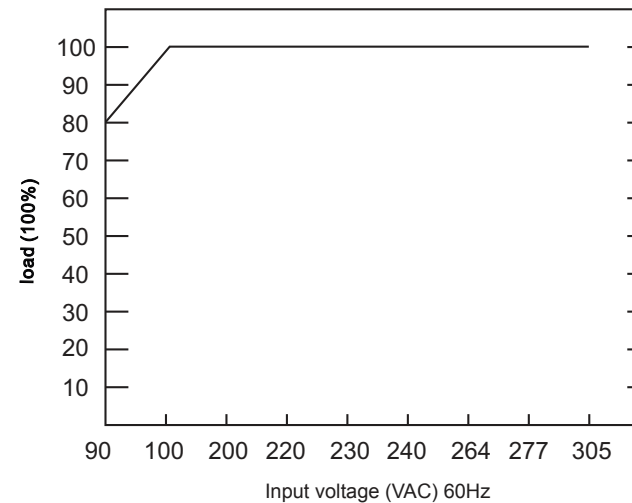
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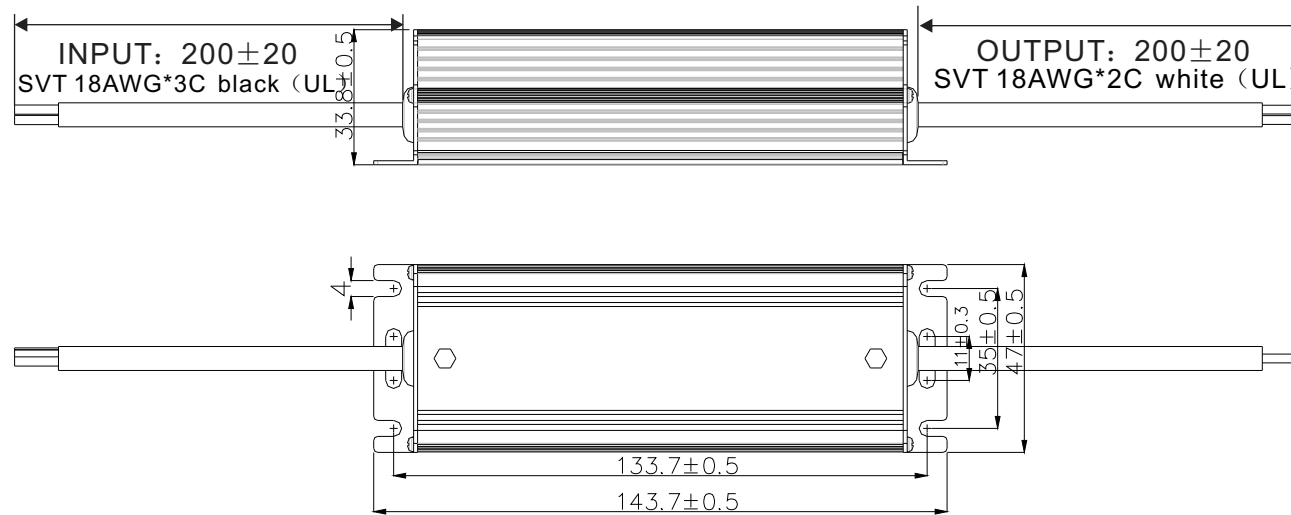
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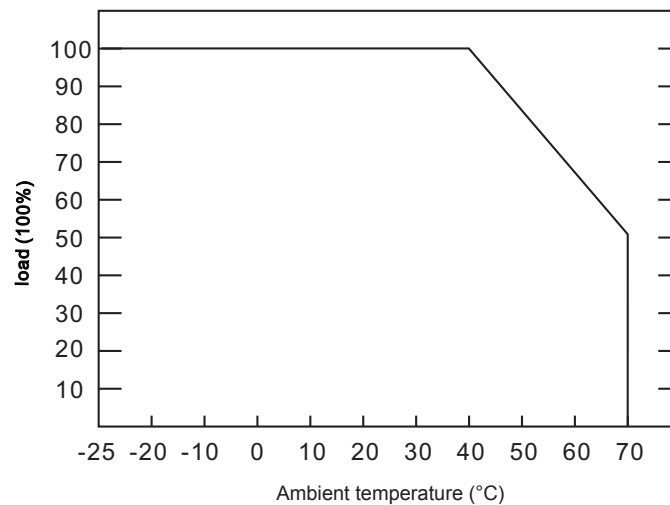
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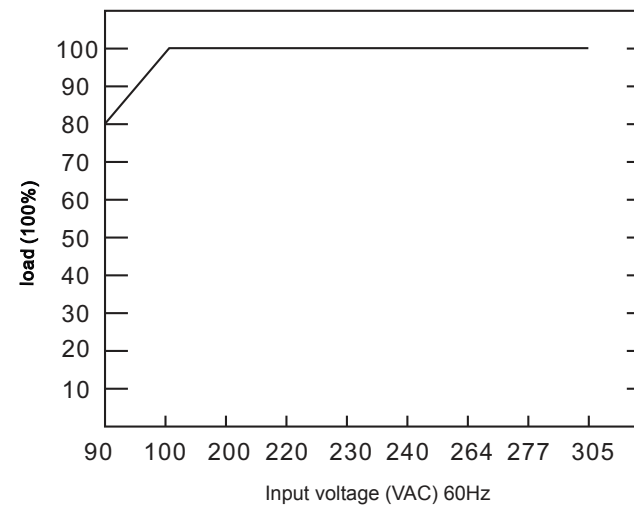
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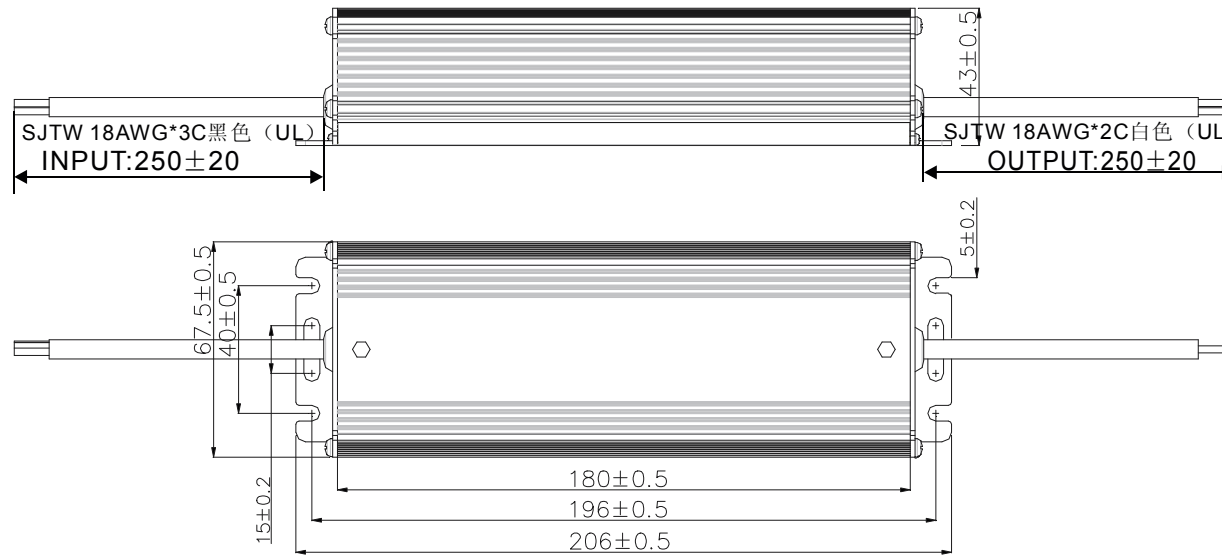
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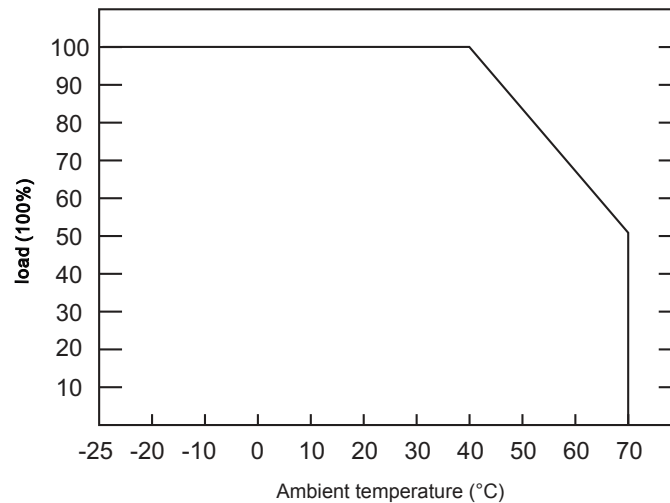
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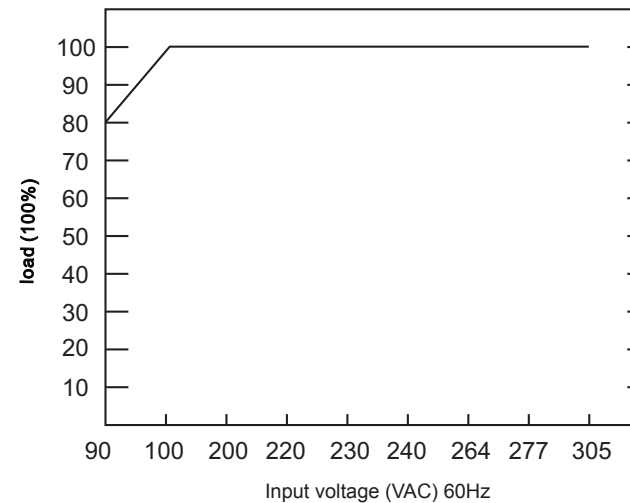
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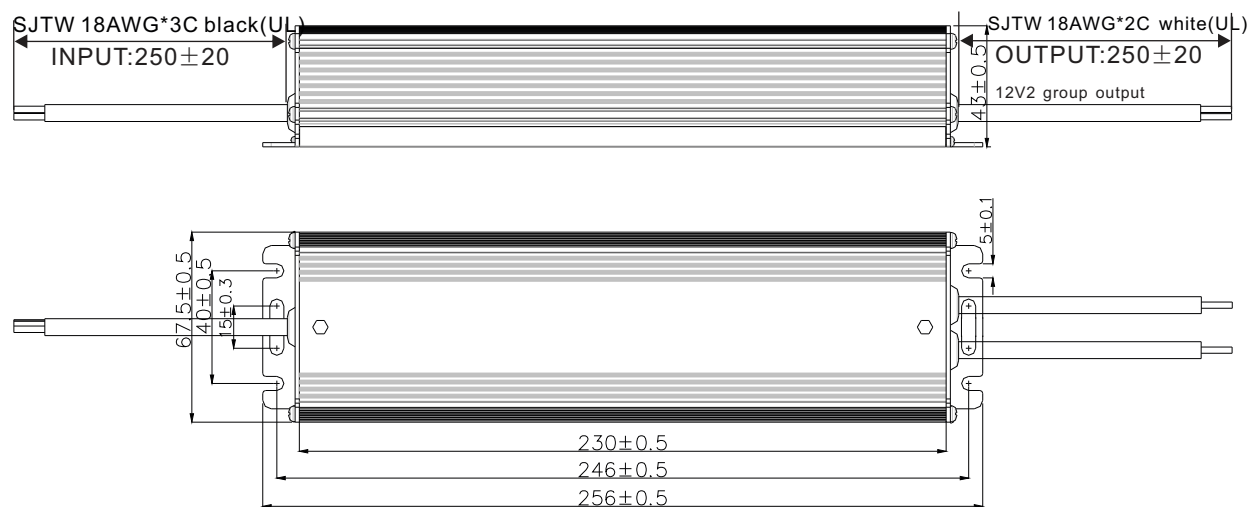
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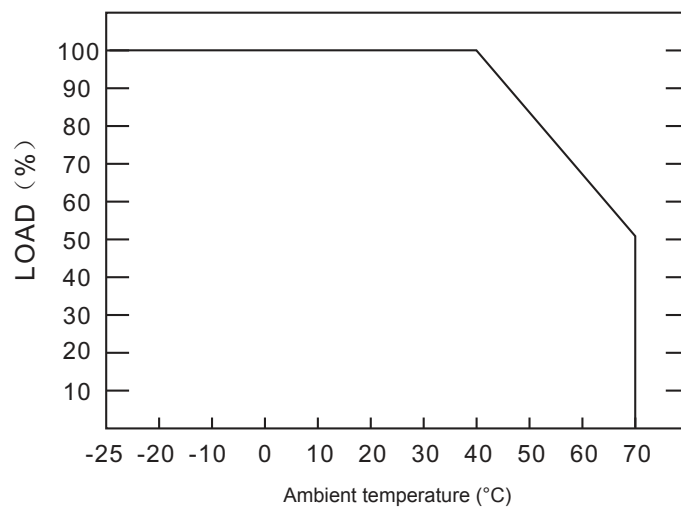
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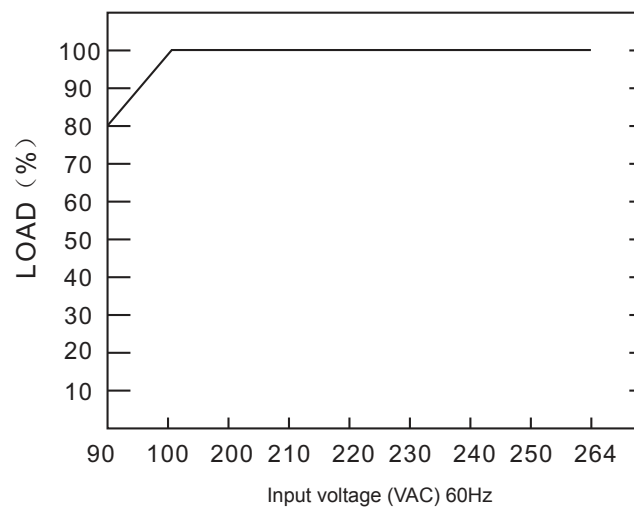
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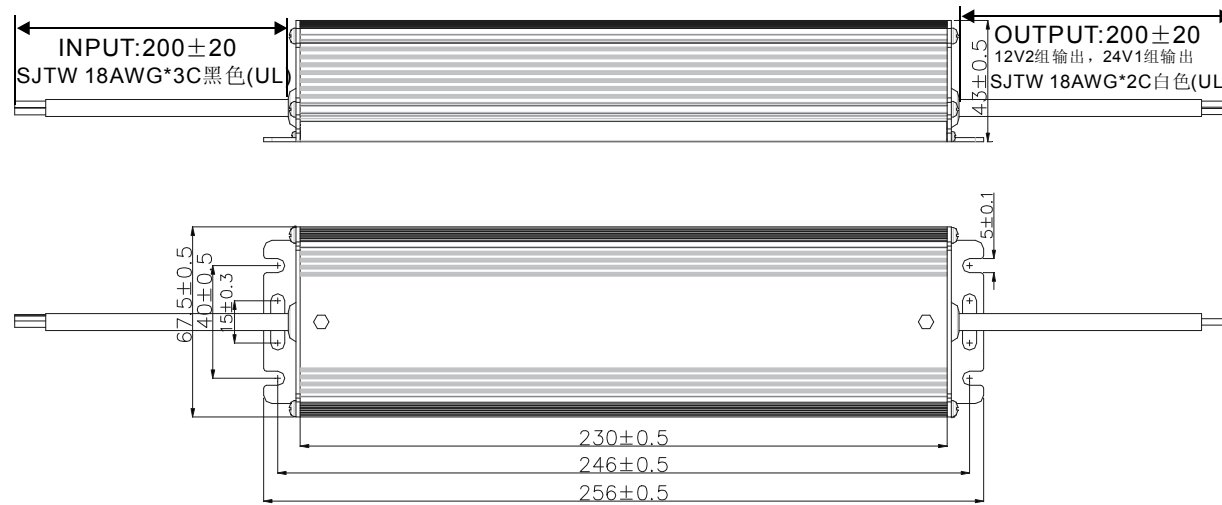
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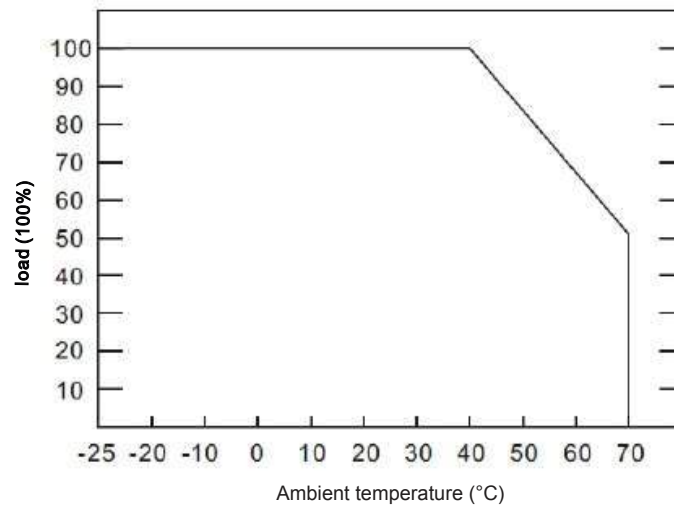
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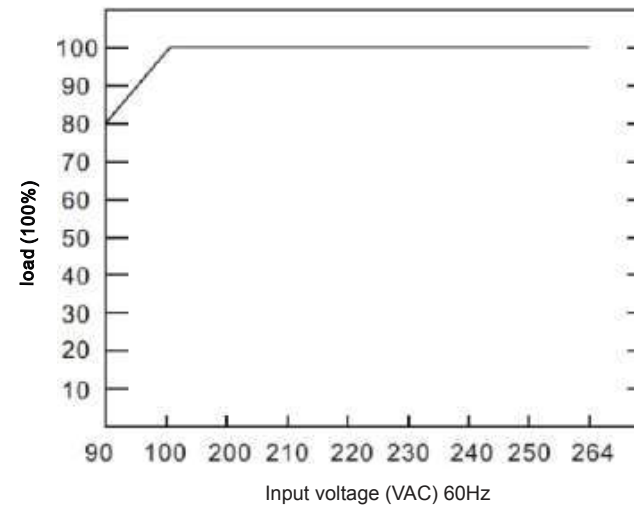
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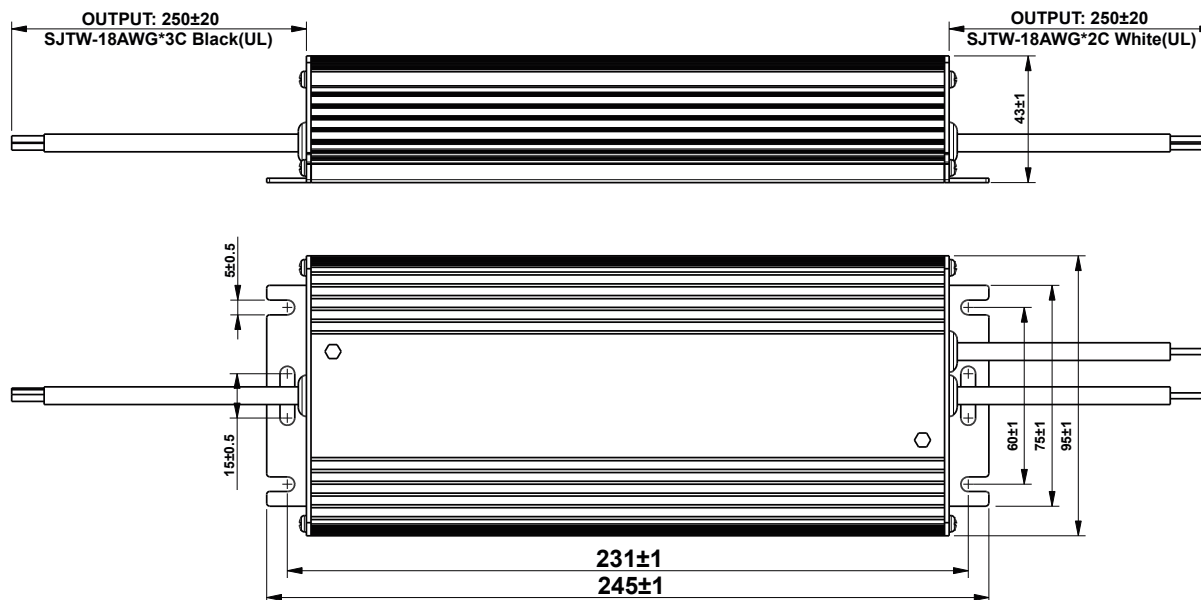
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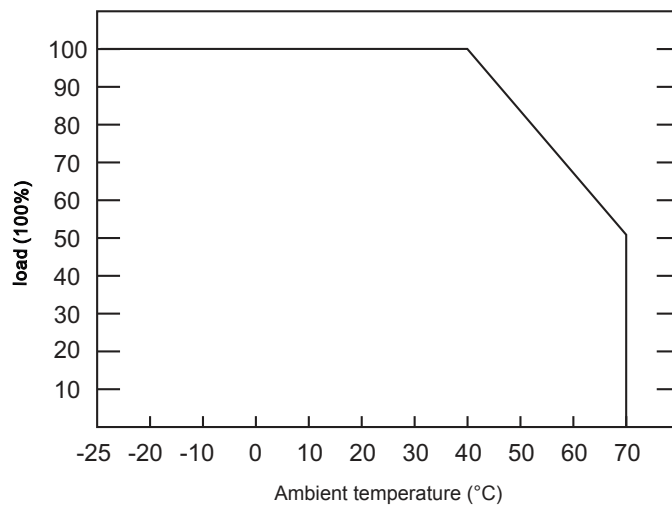
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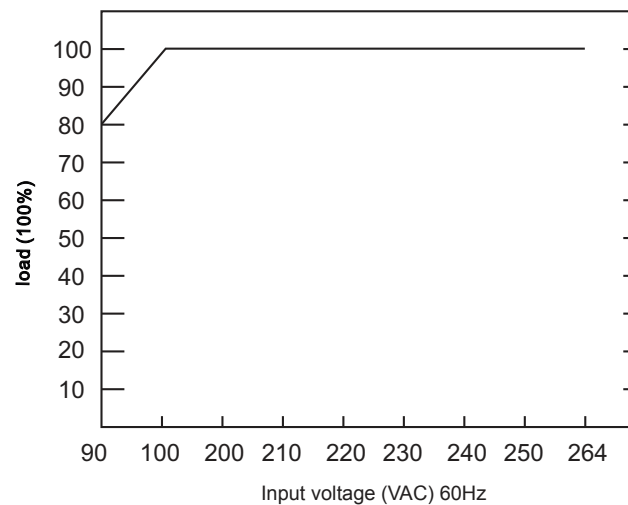
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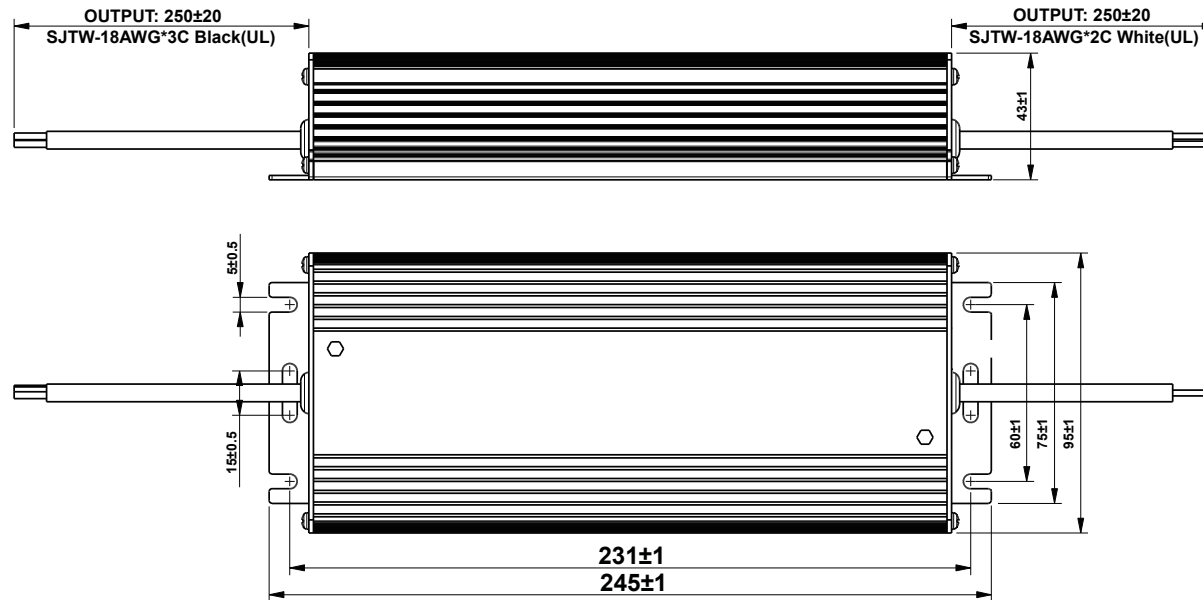
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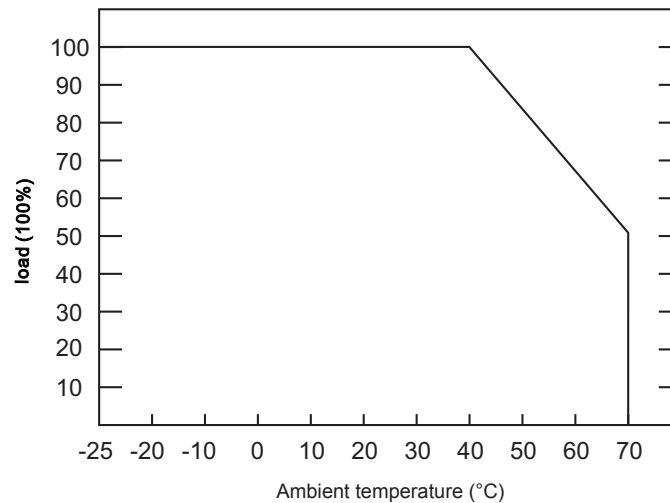
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MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTICS

