



# 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						
<b>OUTPUT</b>	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.) <sup>4</sup>	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 <sup>3</sup>	±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	2	1	2	1					
	Set up time <sup>6</sup>	2000ms, 50ms(at full load) 110VAC/230VAC																
Holding time(Typ.)	15ms(at full load) 110VAC/230VAC																	
<b>INPUT</b>	Voltage Range <sup>2</sup>	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						
<b>PROTECTION</b>	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																	
<b>ENVIRONMENT</b>	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																
<b>SAFETY &amp; EMC</b>	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	/																
<b>OTHERS</b>	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: <sup>1</sup> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

<sup>2</sup> Derating may be needed under low input

voltages. Please check the static characteristics for more details.

<sup>3</sup> Tolerance: includes set up tolerance, line regulation and load regulation.

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

<sup>5</sup> The power supply is considered as a component

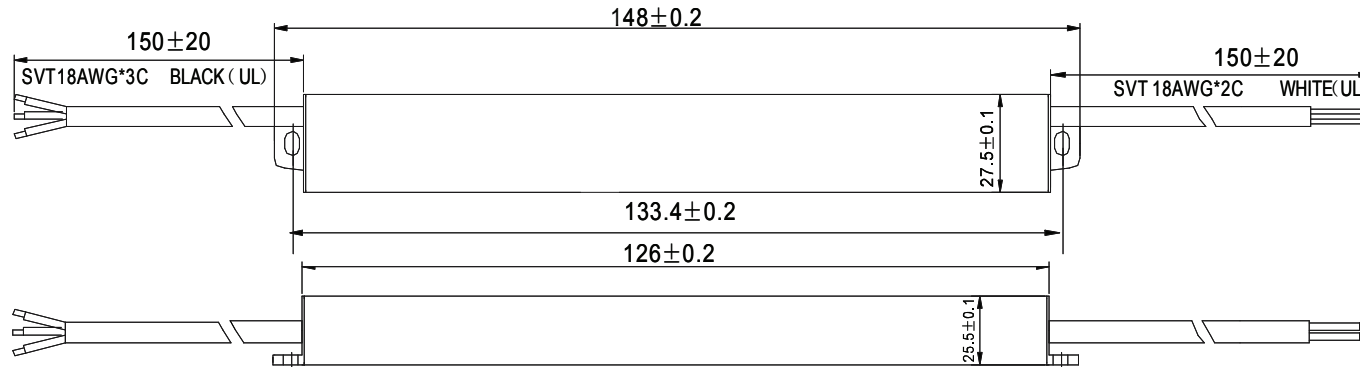
that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-confirm EMC

Directive on the complete installation.

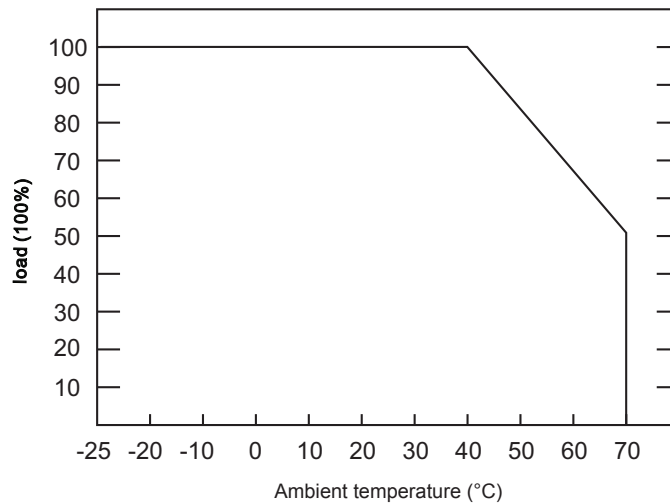
<sup>6</sup> The start time was tested under the situation of cold star, continuous switching on/off may raise the start time.



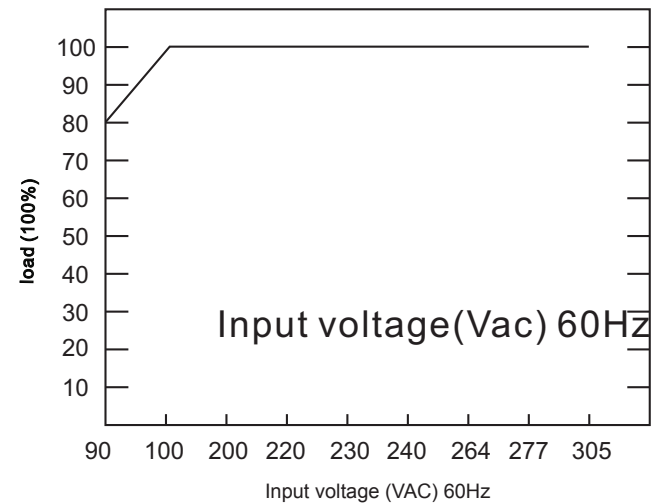
■ **MECHANICAL SPECIFICATION** Units: mm



■ **DERATING CURVE**

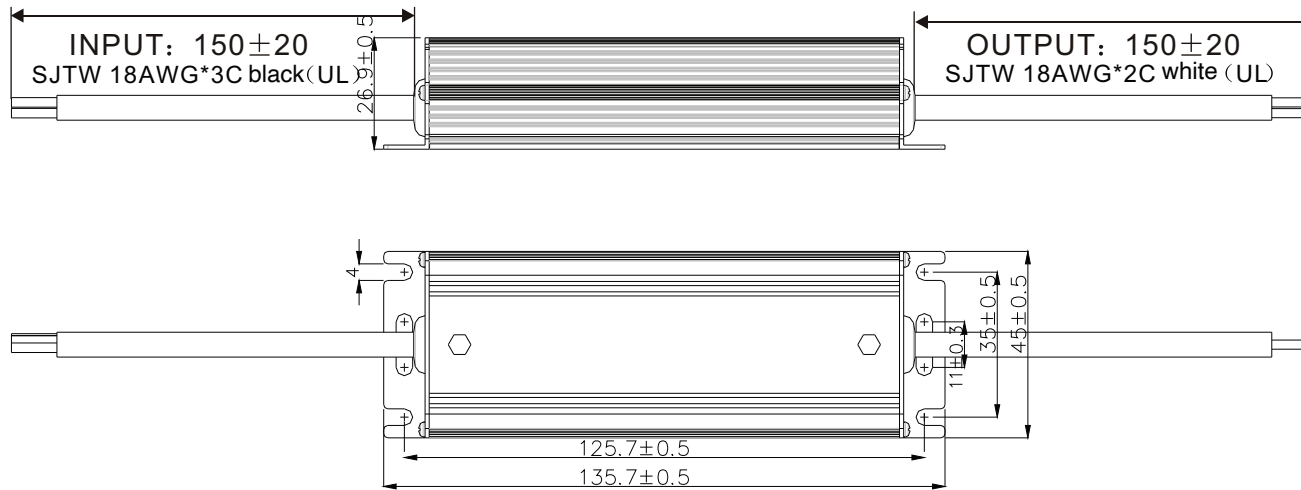


■ **STATIC CHARACTERISTICS**

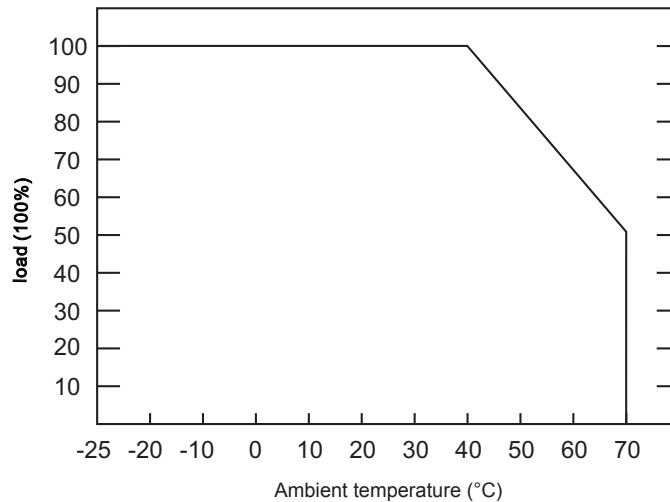




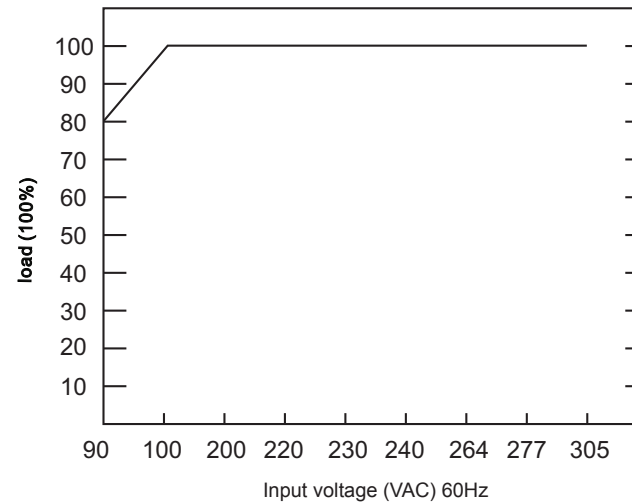
■ **MECHANICAL SPECIFICATION** Units: mm



■ **DERATING CURVE**

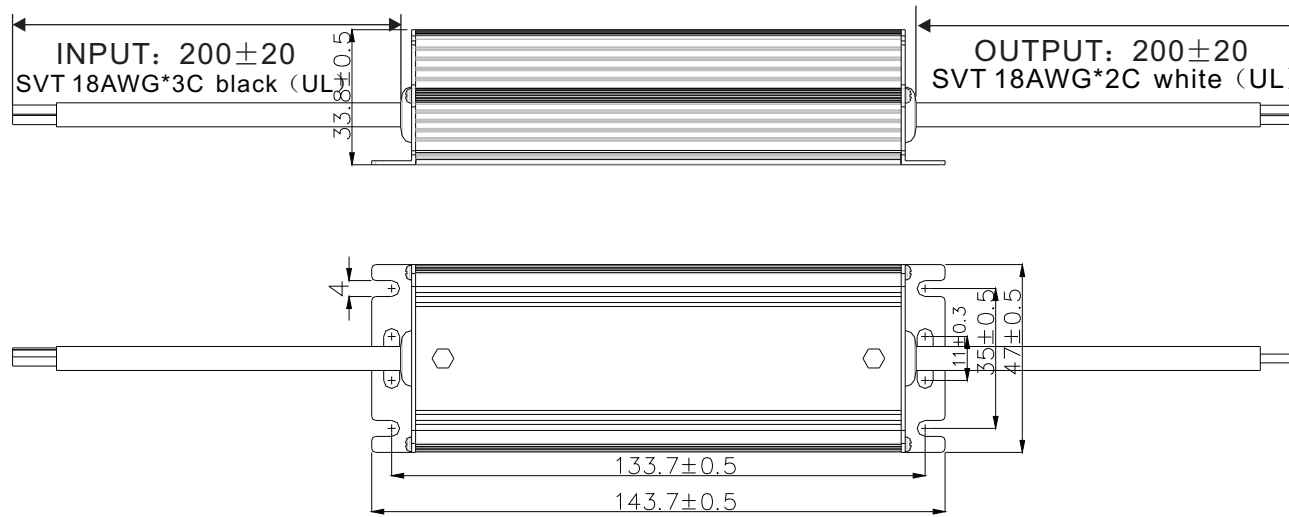


■ **STATIC CHARACTERISTICS**

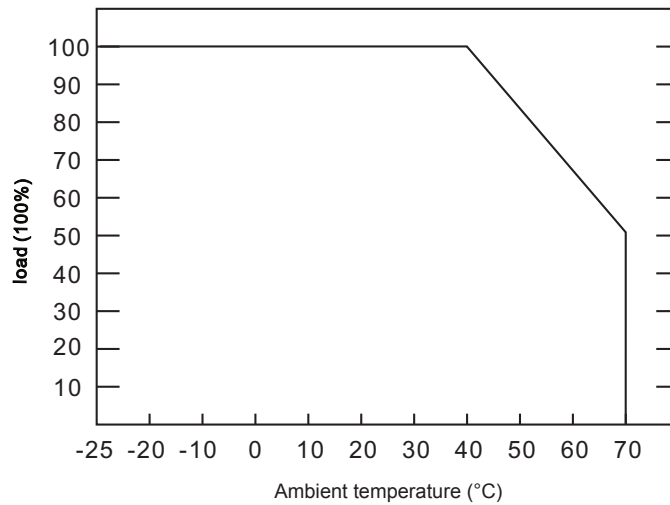




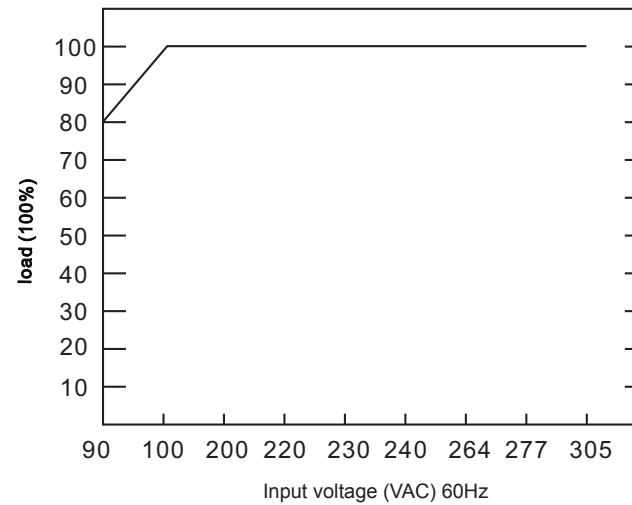
■ **MECHANICAL SPECIFICATION** Units: mm



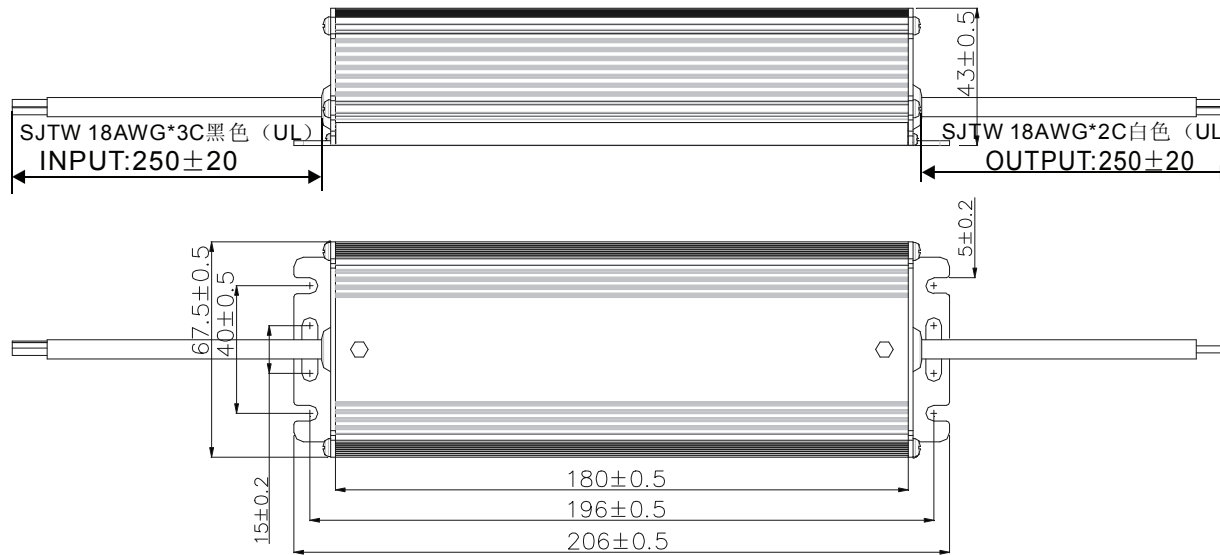
■ **DERATING CURVE**



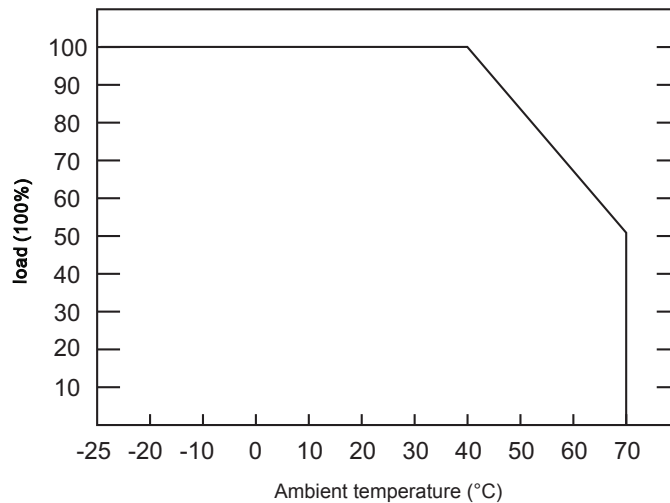
■ **STATIC CHARACTERISTICS**



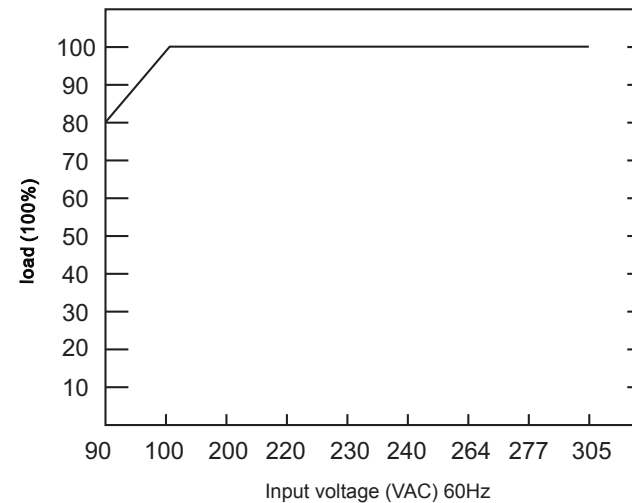
■ **MECHANICAL SPECIFICATION** Units: mm



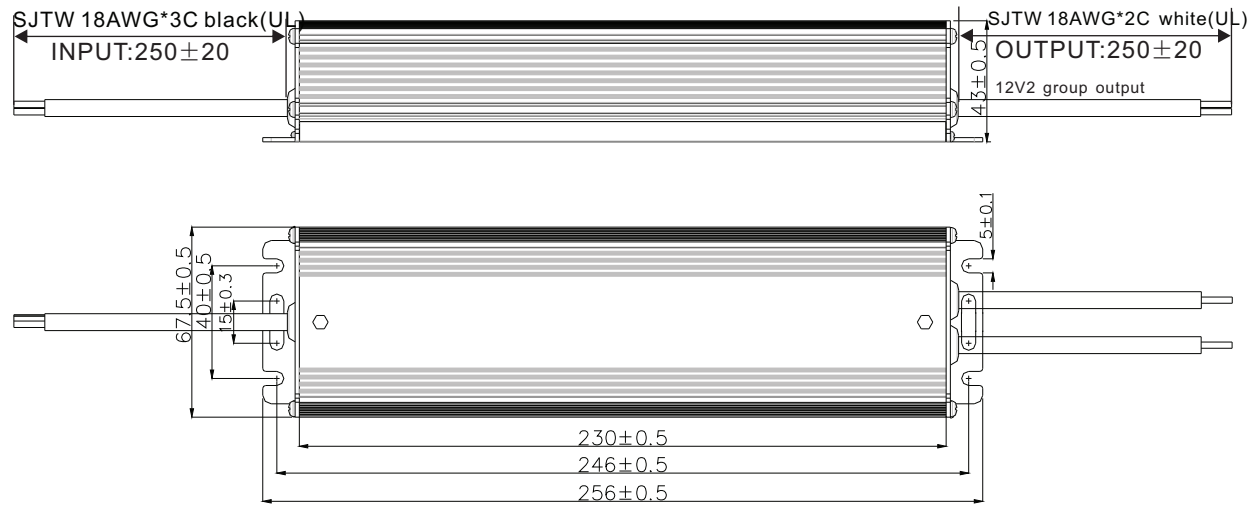
■ **DERATING CURVE**



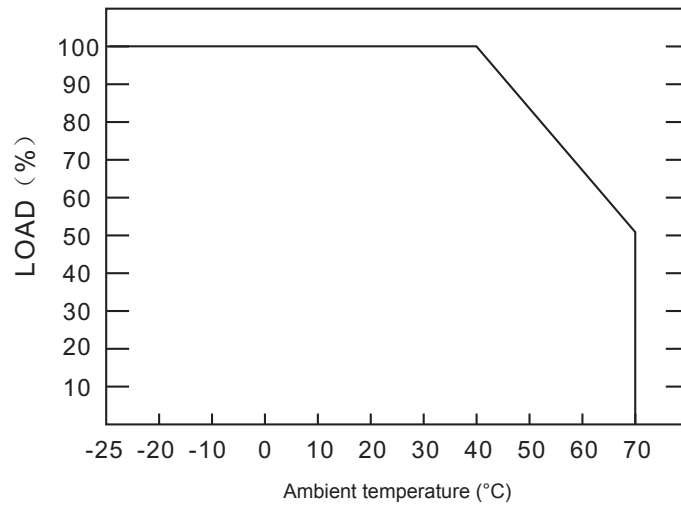
■ **STATIC CHARACTERISTICS**



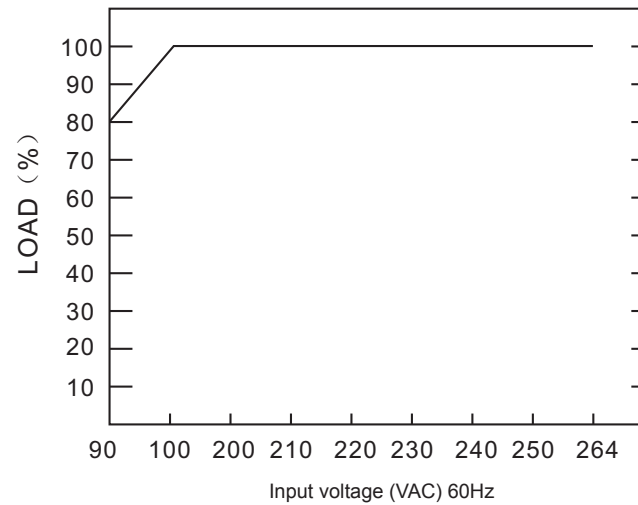
■ **MECHANICAL SPECIFICATION** Units: mm



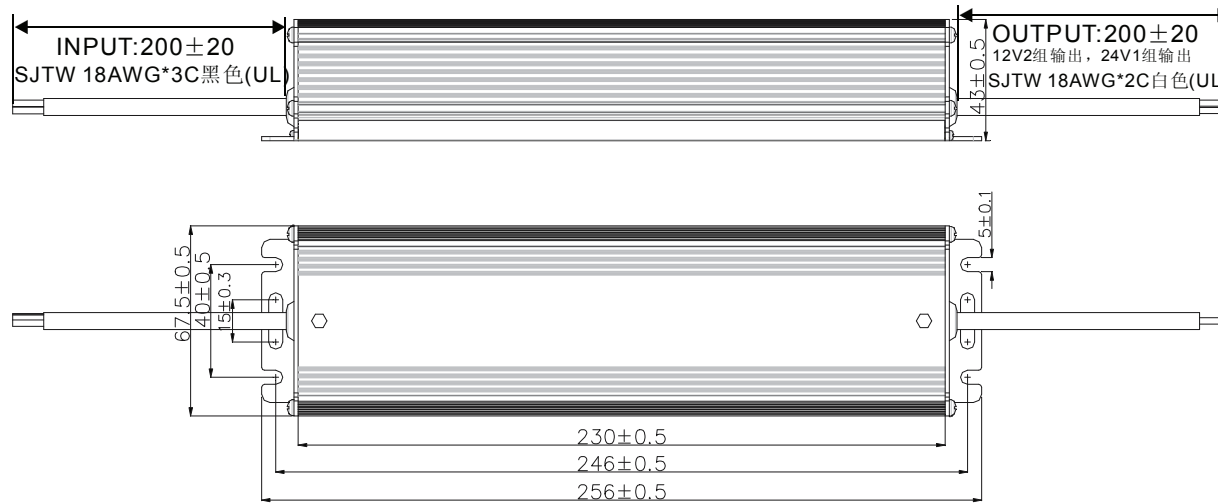
■ **DERATING CURVE**



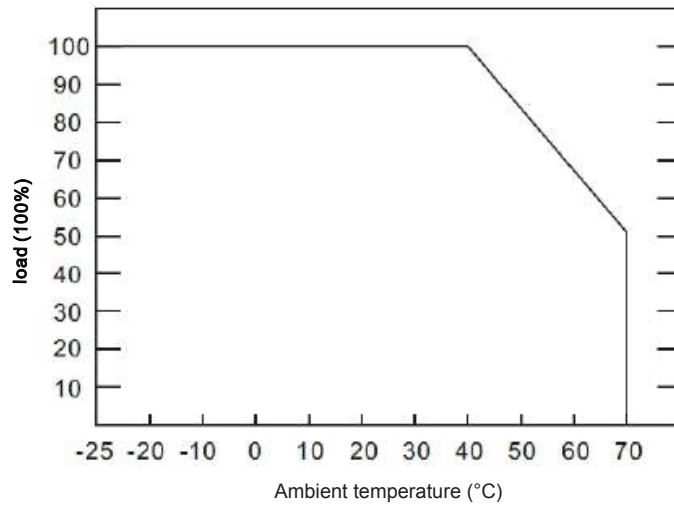
■ **STATIC CHARACTERISTICS**



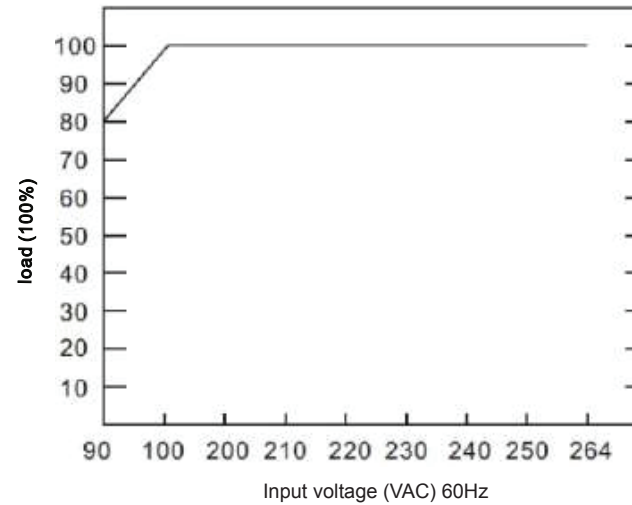
■ MECHANICAL SPECIFICATION Units: mm



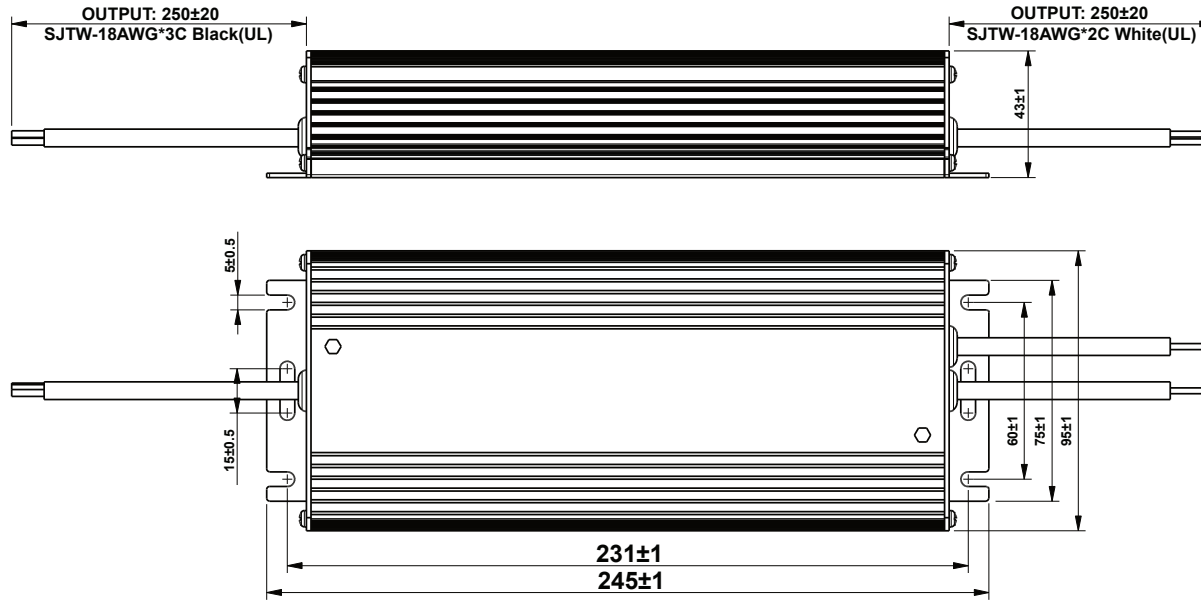
■ DERATING CURVE



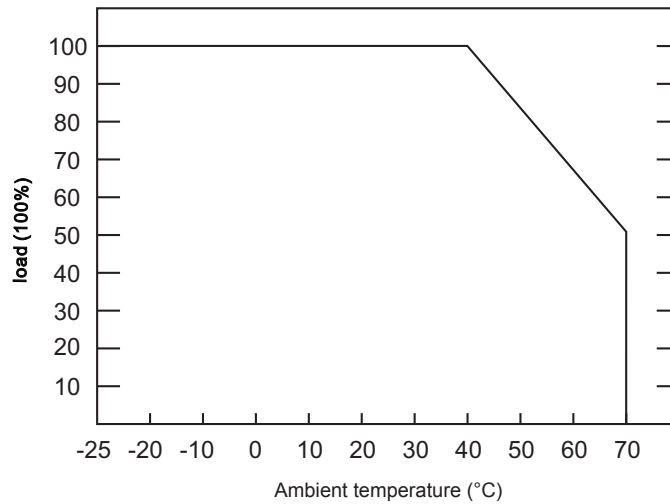
■ STATIC CHARACTERISTICS



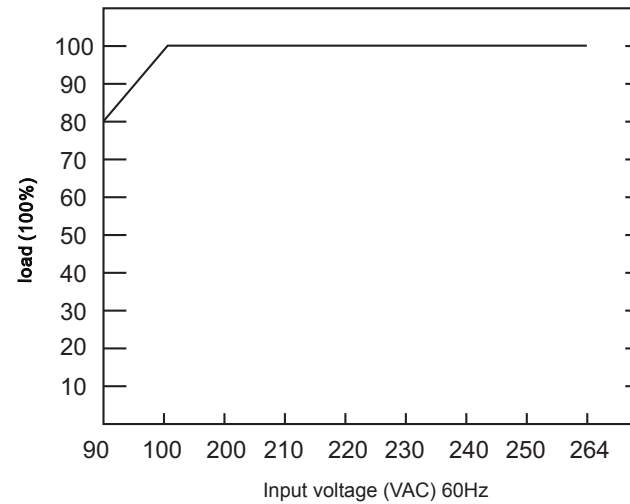
■ **MECHANICAL SPECIFICATION** Units: mm



■ **DERATING CURVE**



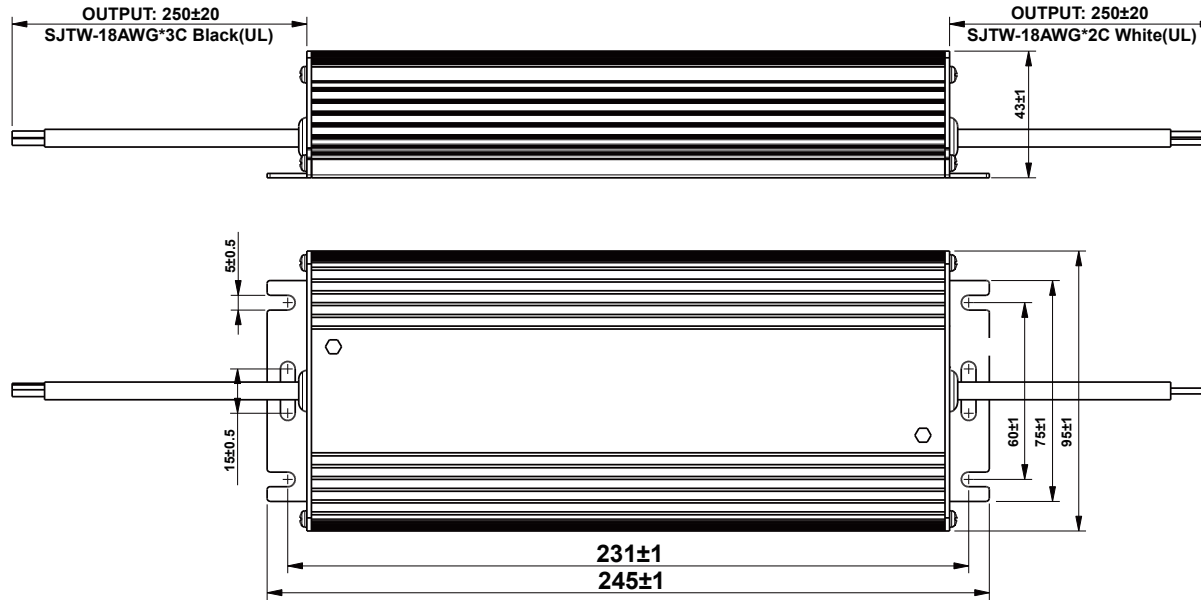
■ **STATIC CHARACTERISTICS**



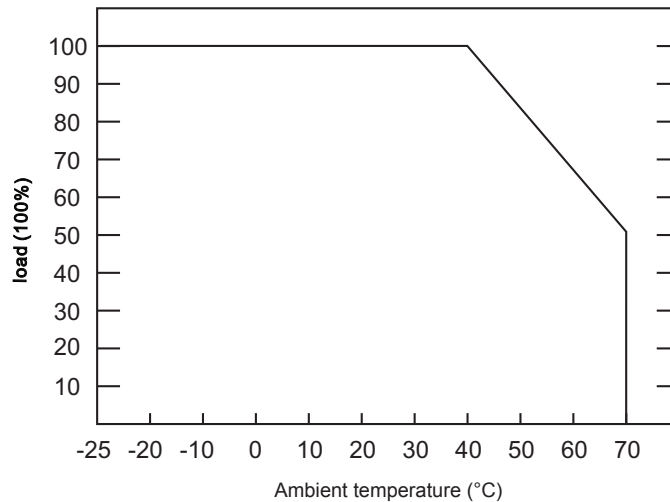




MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTICS

