Armacost LIGHTING

Indoor-Outdoor Standard LED Power Supplies

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

		810153 UL CLASS 2	850150 UL CLASS 2	810302 UL CLASS 2	850300 UL CLASS 2	810604 UL CLASS 2	850601 UL CLASS 2	811004 UL 8750	851000 UL 8750	811504 UL 8750	851500 UL 8750	812000 UL 8750	852000 UL 8750
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	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.

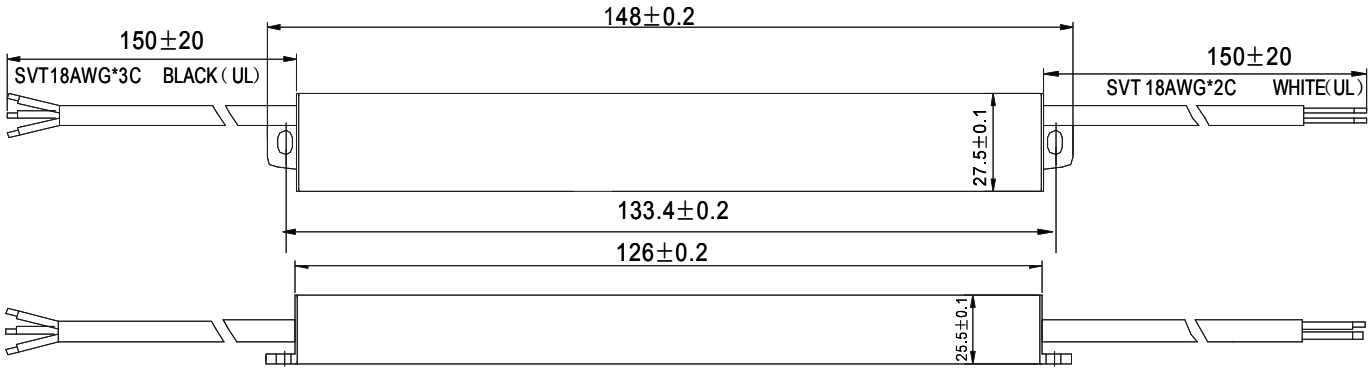
[5] The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-confirm EMC Directive on the complete installation.

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

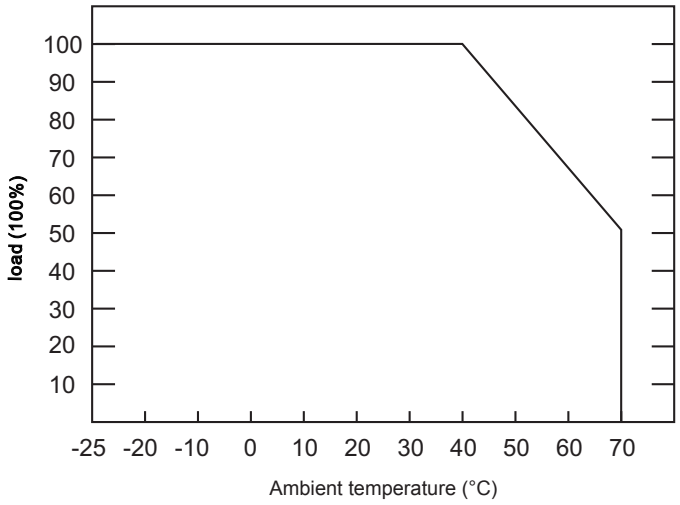
Indoor-Outdoor Standard LED Power Supplies

15W, 12V & 24V

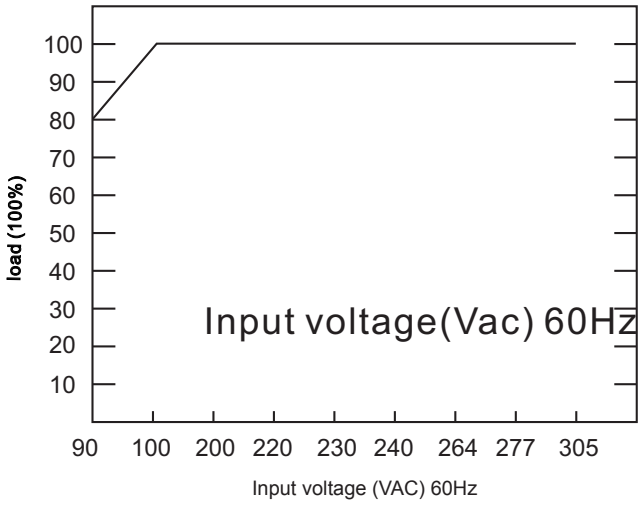
MECHANICAL SPECIFICATION Units: mm



DERATING CURVE



STATIC CHARACTERISTICS

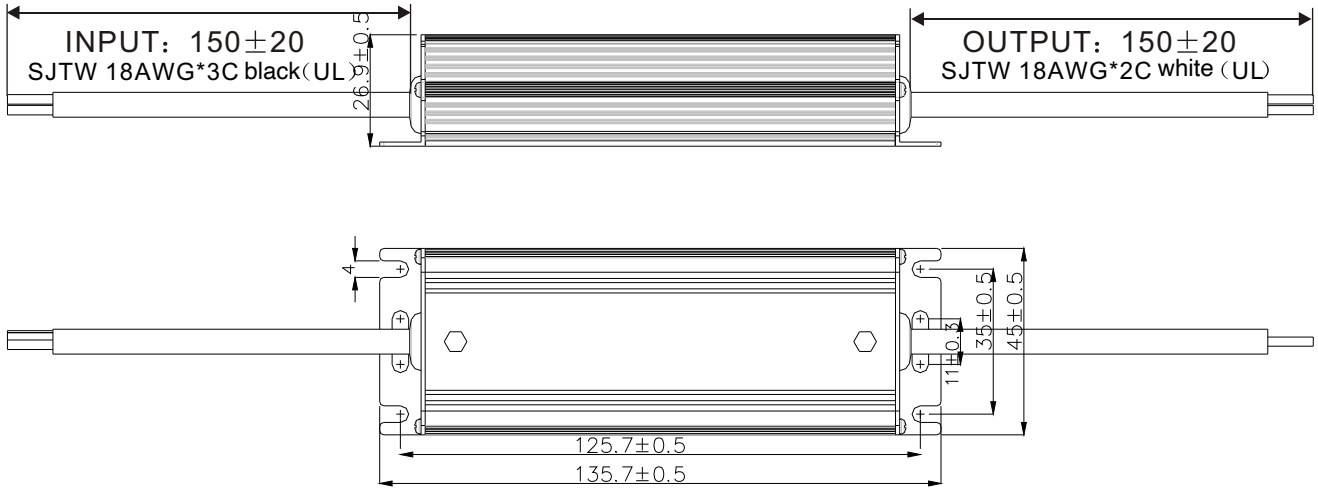


Armacost LIGHTING

Indoor-Outdoor Standard LED Power Supplies

30W, 12V & 24V

MECHANICAL SPECIFICATION Units: mm



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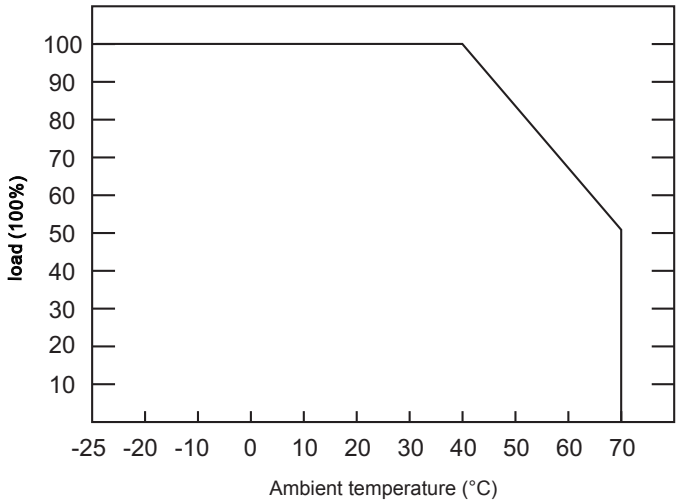
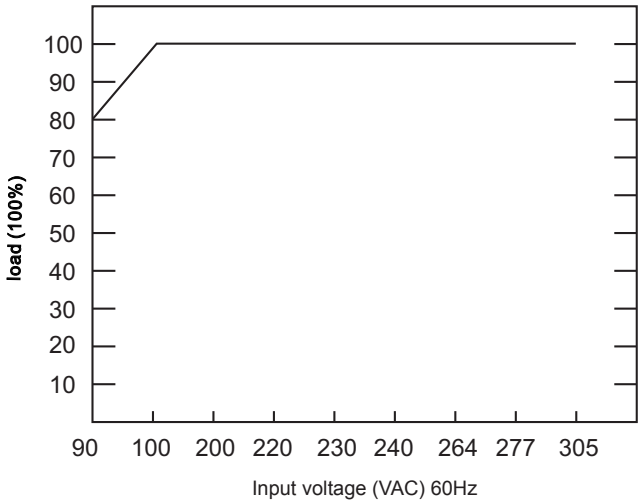


STATIC CHARACTERISTICS

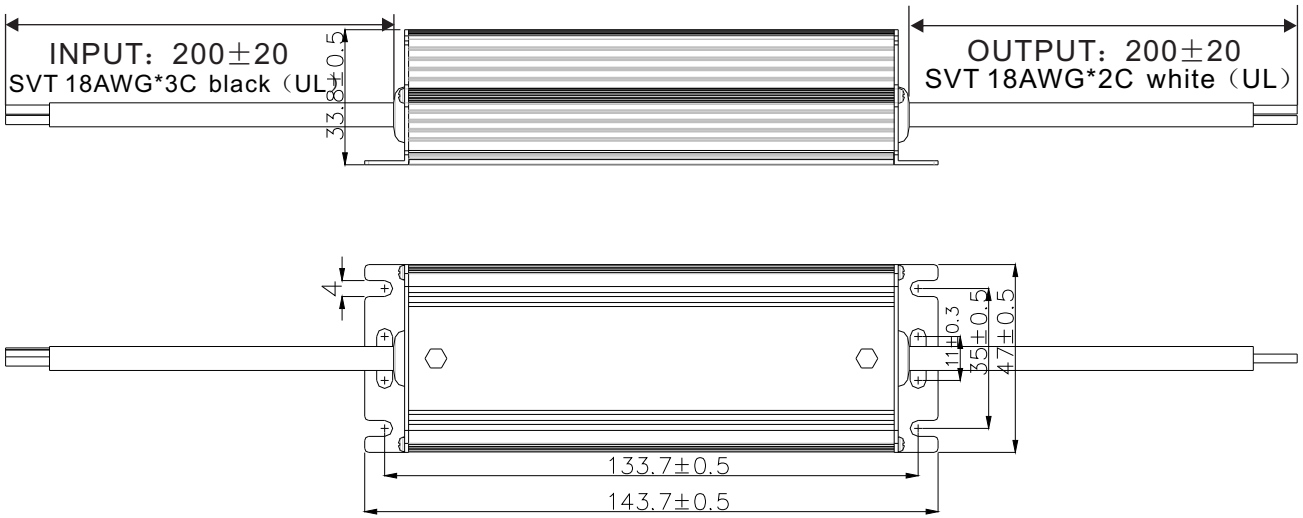


Armacost LIGHTING

Indoor-Outdoor Standard LED Power Supplies

60W, 12V & 24V

MECHANICAL SPECIFICATION Units: mm



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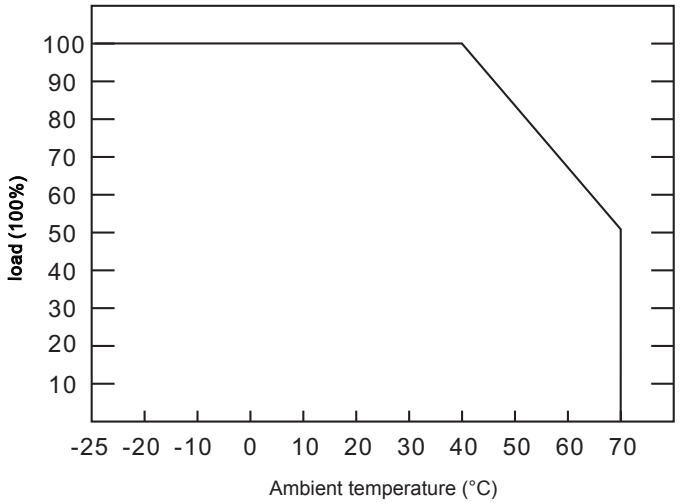
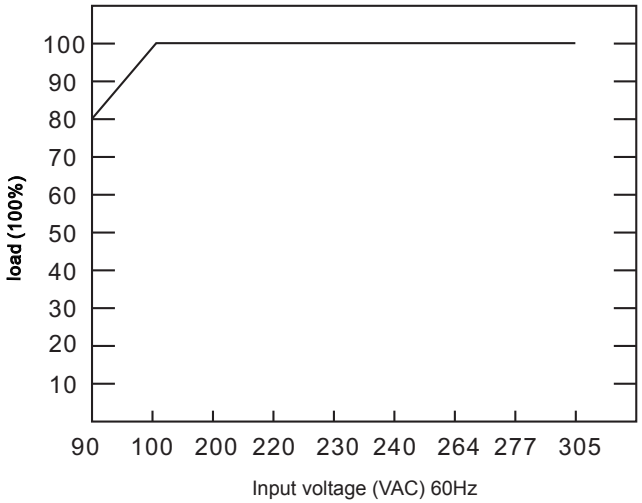


STATIC CHARACTERISTICS

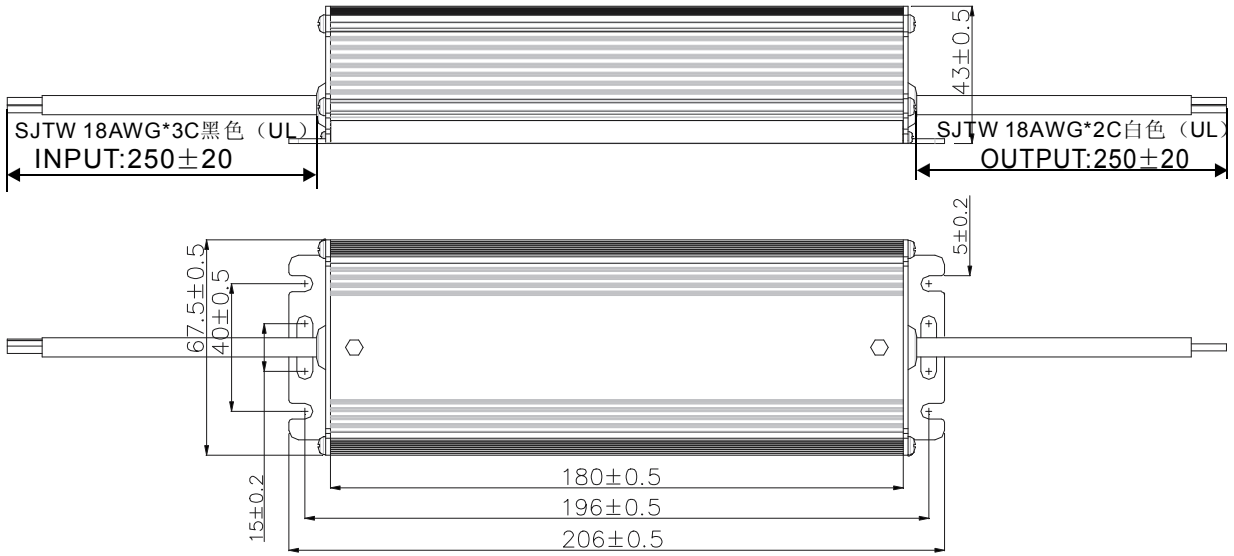


Armacost LIGHTING

Indoor-Outdoor Standard LED Power Supplies

100W, 12V & 24V

MECHANICAL SPECIFICATION Units: mm



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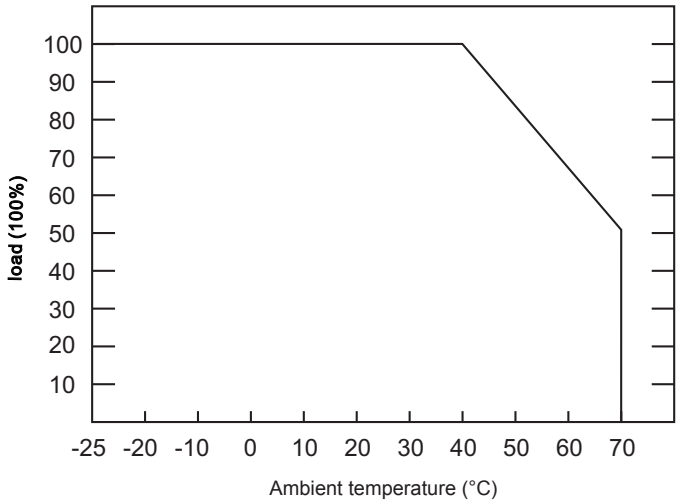
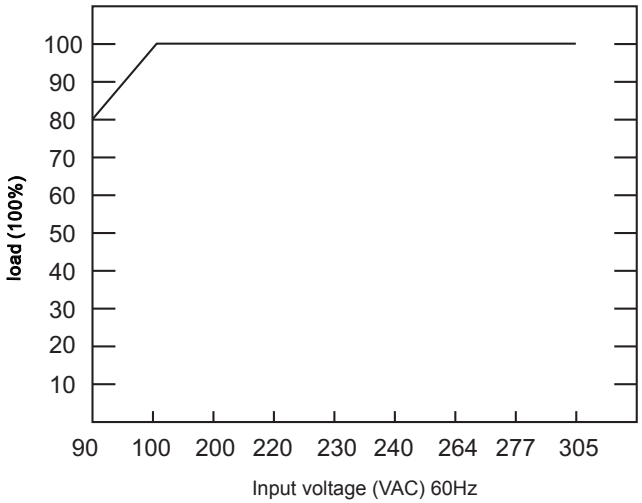


STATIC CHARACTERISTICS

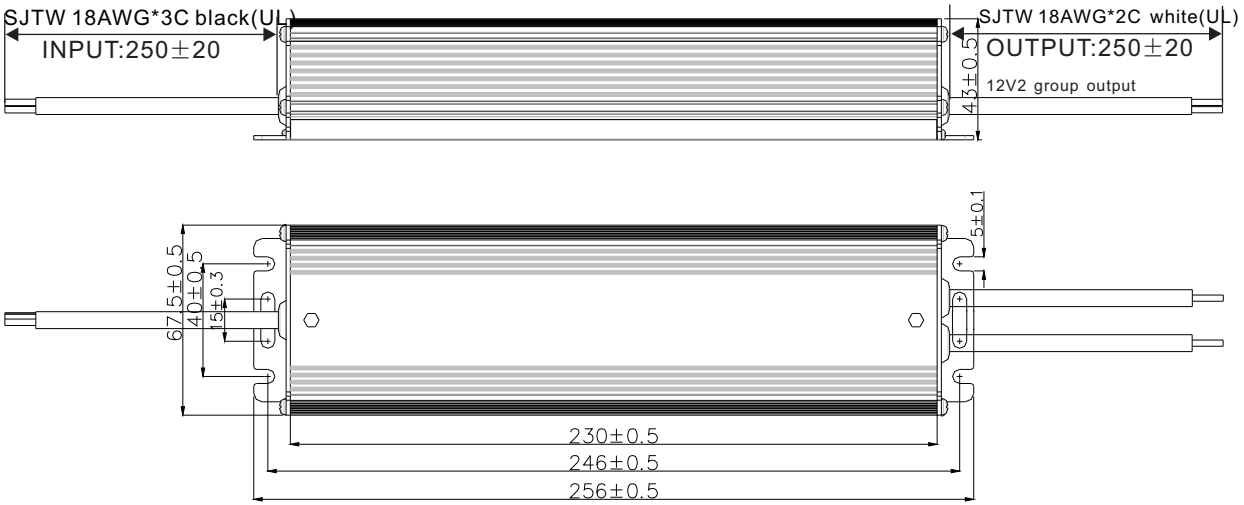


Armacost LIGHTING

Indoor-Outdoor Standard LED Power Supplies

150W, 12V

MECHANICAL SPECIFICATION Units: mm



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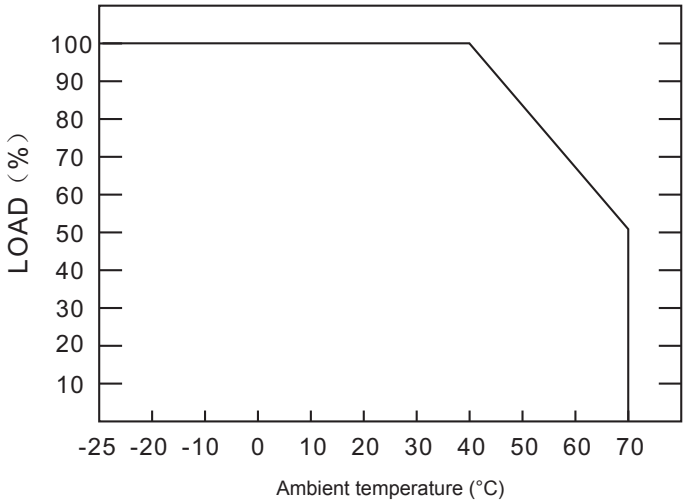
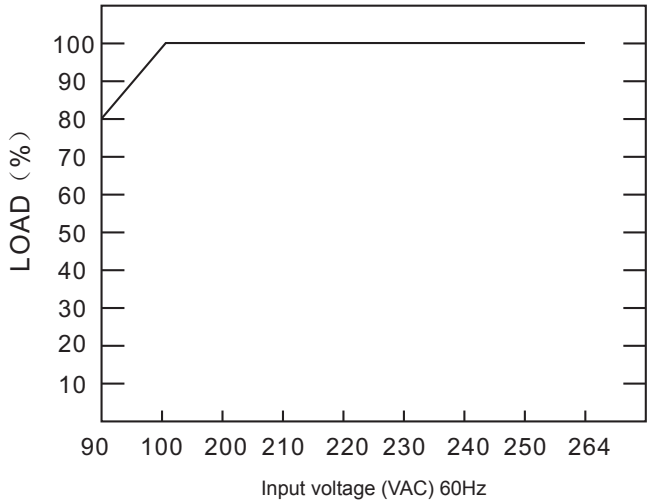


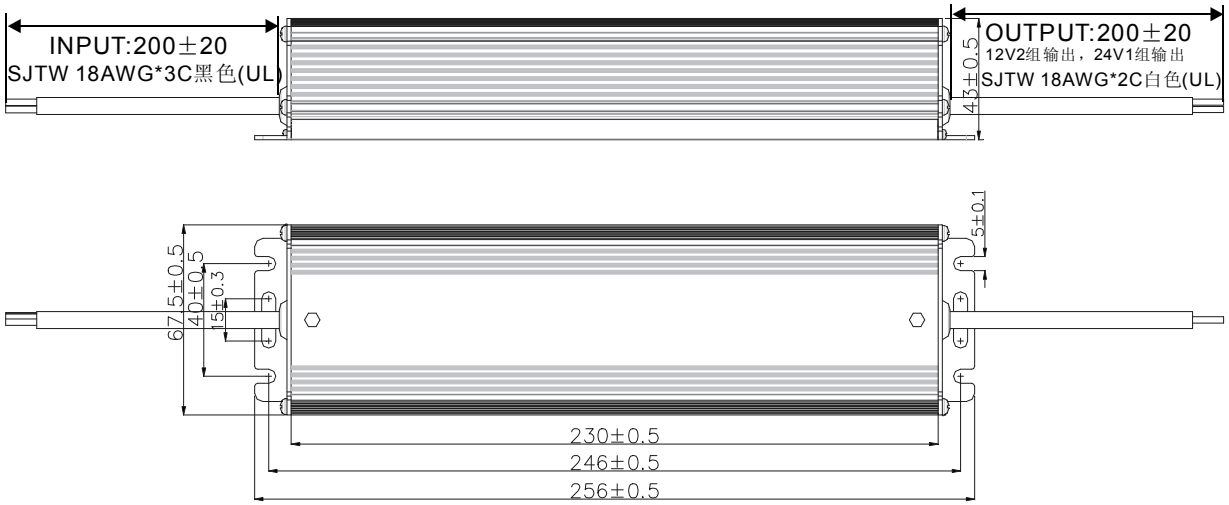
STATIC CHARACTERISTICS



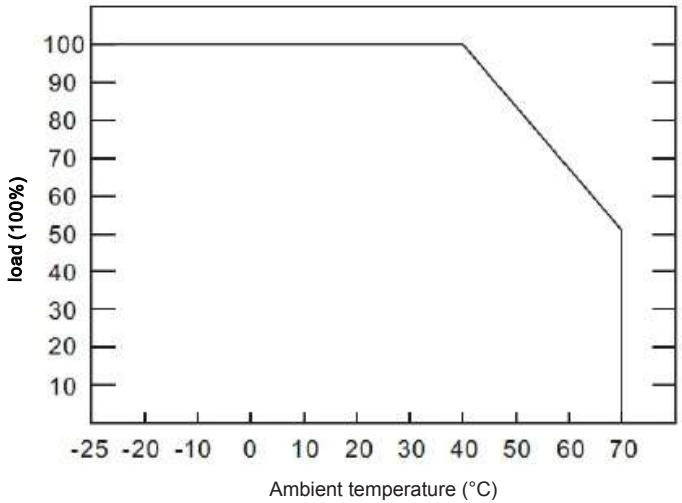
Indoor-Outdoor Standard LED Power Supplies

150W, 24V

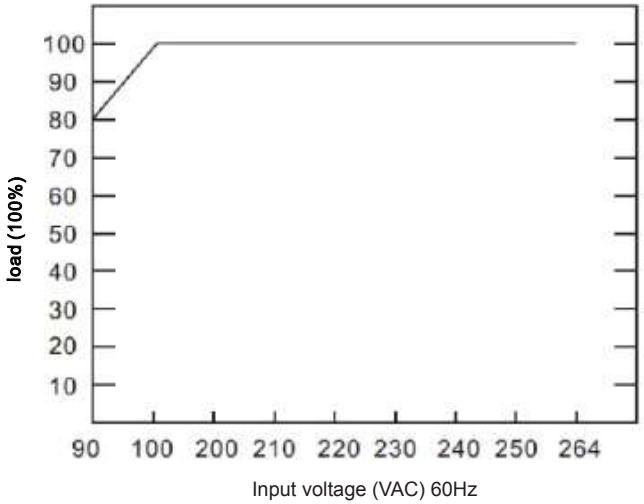
MECHANICAL SPECIFICATION Units: mm



DERATING CURVE



STATIC CHARACTERISTICS



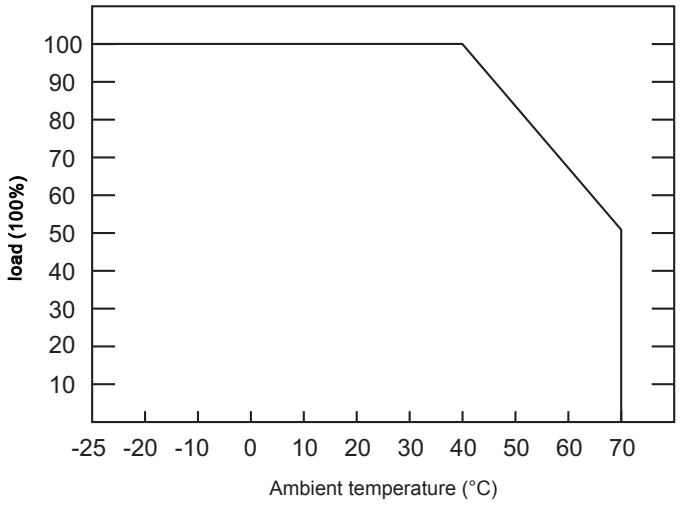
Armacost LIGHTING

Indoor-Outdoor Standard LED Power Supplies

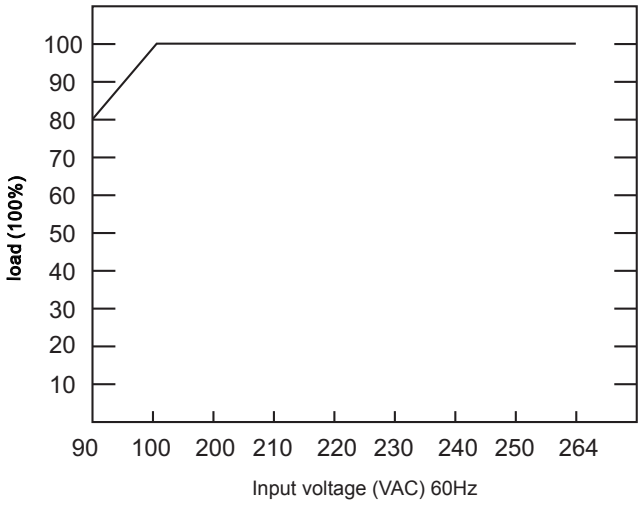
200W, 12V

MECHANICAL SPECIFICATION Units: mm

DERATING CURVE



STATIC CHARACTERISTICS

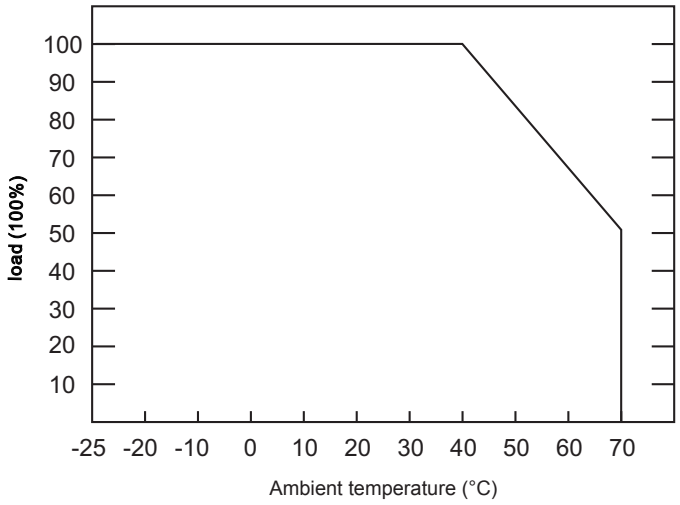


Indoor-Outdoor Standard LED Power Supplies

200W, 24V

MECHANICAL SPECIFICATION

DERATING CURVE



STATIC CHARACTERISTICS