

AAP75-C1050



Product Features

- Can start and operate at -60°C
- Efficiency up to 90%, PF>0.97,THD<9%
- Full power output within recommended operating voltage range
- Constant Current output
- Output current is manually adjustable
- 3 in 1 Dimming Function: 0-10V、PWM、 Resistor
- 12V Auxiliary Cable
- Lightning protection level : Difference module 6kV , Common mode 15 kV
- Protections: BOP、 OTP、 SCP、 OVP- Dimming Interface
- IP67 rating for indoor and outdoor
- Warranty: 5 Years

CE

Technical data

Product model	Max. output Power (W)	Input Voltage (Vac)	Output current (mA)	Output Voltage (Vdc)	PF	Efficiency	size/mm
AAP75-1050	75	120-277	500-1050	54-108	0.95	90%	152*56*27
AAP75-1050-S	75	120-277	500-1050	54-108	0.95	90%	152*56*27
AAP75-1050-X	75	120-277	500-1050	54-108	0.95	90%	152*56*27

- ※ The model number does not have a tail vertebral letter to indicate the basic model
- ※ The 'S' Indicates with dimming function
- ※ The 'X' Indicates with dimming function and 12V auxiliary output
- ※ If you have other parameter requirements, you can consult the corresponding sales staff
- ※ All the above product models feature potentiometer functionality

Technical data

Electrical Specifications

category	project	Technical Indicators	
Output parameters	Constant way	Constant current	
	Rated output current	500-1050mA	
	Output voltage range	54-108Vdc	@At the rated output voltage, the maximum output power Po=Vo*Io=75W
	Rated output voltage	72-108Vdc	
	Default factory output current	0.7A	
	Maximum no-load output voltage	140V	
	Efficiency	88% @Input 120Vac, Output 72V/1.05A 89% @Input 230Vac, Output 72V/1.05A 89% @Input 277Vac, Output 72V/1.05A 88% @Input 120Vac, Output 108V/0.7A 89% @Input 230Vac, Output 108V/0.7A 89% @Input 277Vac, Output 108V/0.7A	
	Current accuracy	±5% @100% load Constant Power Range	
	Output current ripple	10% @ΔI=Ipk-pk/2/Io*100%	
	Startup current overshoot	10% @LED Load	
	Startup time	500～1000ms @100%Load@120-277Vac	
	Linear regulation rate	±3% @100%Load	
	Load regulation rate	±3% @100%Load	
	Over temperature protection	90℃ @Casing temperature: Prolonged operation atthe highest temperature will reduce the reliability of the power supply. Pay attention to heat dissipation when in use	
	Short circuit protection	10W @Not damaged by prolonged short circuits, automatic recovery upon fault resolution	
	Input undervoltage protection	96-108V @ Derated output, returns to normal after the abnormal condition is resolved	
	Input overvoltage protection	320Vac	
Input parameters	Rated input voltage	120-277Vac	
	Input voltage range	108-305Vac	
	Input frequency range	47-63HZ	
	Input current	0.8A @120Vac, Full Load	
	Input power	90W @120Vac, Full Load	
	Input surge current peak value	55A @120Vac, Cold Start 85A @230Vac, Cold Start 100A @277Vac, Cold Start	
	Power factor	0.99 @120Vac, Full Load 0.97 @230Vac, Full Load 0.95 @277Vac, Full Load 0.9 @120-277Vac 50/60Hz, 70-100% Load	
	Total harmonic distortion	5% @120Vac, Full Load 7% @230Vac, Full Load 10% @277Vac, Full Load 15% @120-277Vac 50/60Hz, 70-100% Load	

Technical data

category project		Technical Indicators
12Vdc Auxiliary	Rated output voltage	12V @DIM+ output 100uA current
	Rated output current	0.25A
0-10V Dimming	External voltage range	0-12V @DIM+ output 100uA current
	Recommended dimming voltage	1-10V
	Dimming output range	10-100% @DIM+/DIM-reverse connection prohibited.
	Dimming cutoff voltage	0.2-0.4V
	Dimming start voltage	0.3-0.5V
PWM Dimming	PWM High	9.8-10.2V @DIM+ output 100uA current
	PWM Low	0-0.2V @DIM+/DIM-reverse connectionprohibited.
	PWM Frequency	500-2000Hz
	Recommended dimming duty cycle	10-100%
	Dimming output range	10-100%
	Dimming cutoff duty cycle	6-8% @Typical 7%
	Dimming start duty cycle	7-9% @Typical 8%
Resistor Dimming	External resistor	0-100KΩ @DIM+ output 100uA current
	Dimming output range	10-100%
	Dimming cutoff resistance	2.5-4.5KΩ @Typical 3.5KΩ
	Dimming start resistance	4-6KΩ @Typical 5KΩ
Interface protection	DIM+/DIM- Reversal	Output Shutdown @Interface not damaged within 30minutes
	Interface over voltage protection	400Vdc or 277Vac @Interface not damaged within 30minutes
Environment	Operating temperature	-60...90°C @Typical 75°C
	Operating humidity	10-90%RH @No condensation
	Storage temperature	-40...90°C @Typical 25°C
	Storage humidity	10-90%RH @No condensation
Other	Estimation of Mean Time Between Failures (MTBF)	265500 hours @230Vac, full load, ambient temperature 25°C
	Lifetime	50,000 hours @230Vac, full load, Tc=75°C
	International Protection	IP67 @Suitable for dry and humid environments, avoid prolonged exposure to rain
	Maximum casing temperature	90°C
	Warranty	5 Years @Casing temperature (Tc point) not exceeding 75°C
	We ght	450g @Net weight
	Dimension	152mm*56mm*27mm

Remarks:

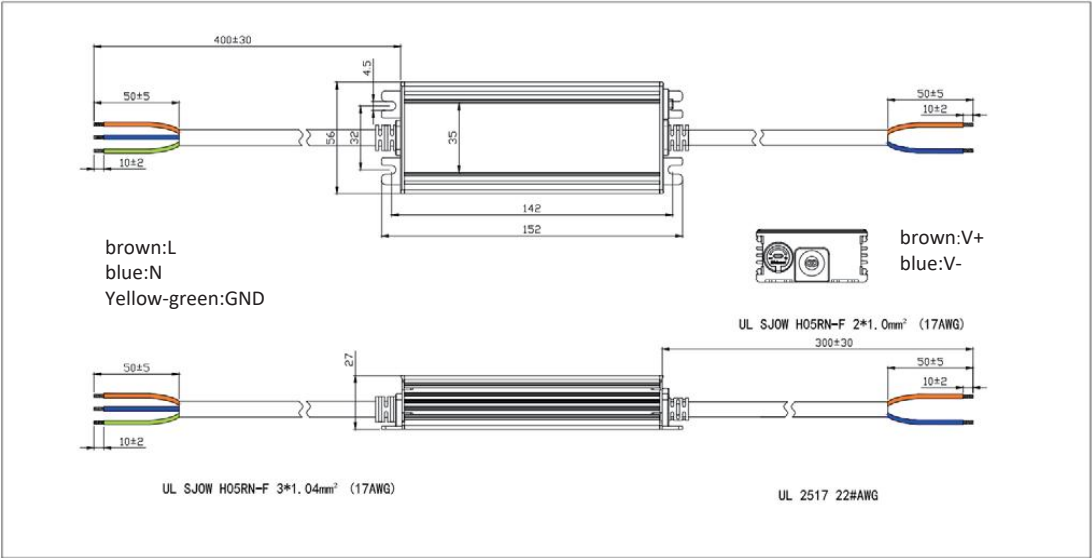
1. The dimming interface can withstand voltages within 277Vac for a short period of time (within 30 minutes) without damage, and returns to normal after the fault is resolved; when the dimming interface is connected to AC mains power, the output current drops to half of the set current value. Construction workers can quickly identify and resolve faults based on this phenomenon to avoid permanent damage to the interface;
2. All performance parameters are typical values measured at an ambient temperature of 25°C and using an LED load, unless otherwise specified;
3. When the dimming line is not in use, please seal the dimming line connector with an insulating sleeve to prevent interference signals from causing damage to the dimming line and affecting the normal operation of the power supply;

category project		Technical Indicators
Safety and EMC	CCC	GB 19510.14-2009、 GB/T 17743-2021、 GB 17625.1-2022
	ENEC	EN 61347-1:2015 EN 61347-2-13:2014 EN 61347-2-13:2014/A1:2017
	CB	IEC 61347-1, IEC 61347-2-13-2016
	CE	EN 61347-2-13:2014 EN61347- 1:2008+A1:2011+A2:2013
	Conducted emission	EN 55015/GB 17743 @Conducted emission Test &Radiated emission Test
	Radiated emission	FCC Part 15 Subpart B
	Harmonics Current	EN 61000-3-2 @Harmonic current emissions
	Voltage flicker	EN 61000-3-3 @Voltage Fluctuations & Flicker
	ESD	EN 61000-4-2 @Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
	Radiated Susceptibility	EN 61000-4-3 @Radio-Frequency Electromagnetic Field Susceptibility Test-RS
	Surge (transient)	EN 61000-4-5 @Surge Immunity Test:Differential Mode 6 kV, Common Mode 20 kV
	Conducted immunity	EN 61000-4-6 @Conducted Radio Frequency Disturbances Test-CS
	Power frequency magnetic field	EN 61000-4-8 @Power Frequency Magnetic Field Test
	Voltage dips and interruption	EN 61000-4-11 @Voltage Dips
	Immunity of lighting equipment	EN 61547 @Electromagnetic Immunity Requirements Applies To Lighting Equipment
	Oscillatory wave immunity	EN 61000-4-12 @Oscillatory Waves Immunity Test
	Insulation	I/P-O/P, I/P-FG, O/P-FG:100MΩ / 500VDC / 25℃ /70% RH
	Dielectric strength	I/P-O/P:3.75kVac I/P-FG:1.5kVac O/P-FG:500Vac I/P-DIM&Vaux:3.75kVac O/P-DIM&Vaux:1.5kVac DIM&Vaux-FG:1.5kV
	Ground resistance	<0.1Ω, 25A/1min
	Leakage current	<0.75mA 277Vac

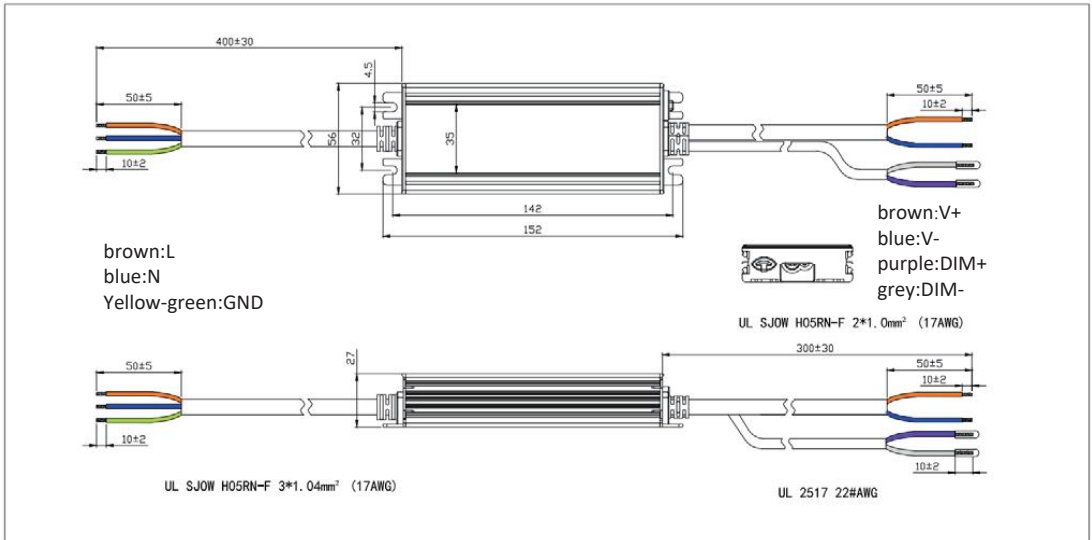
Product datasheet

Exterior dimensions (unit: mm)

Note: AAP75-1050



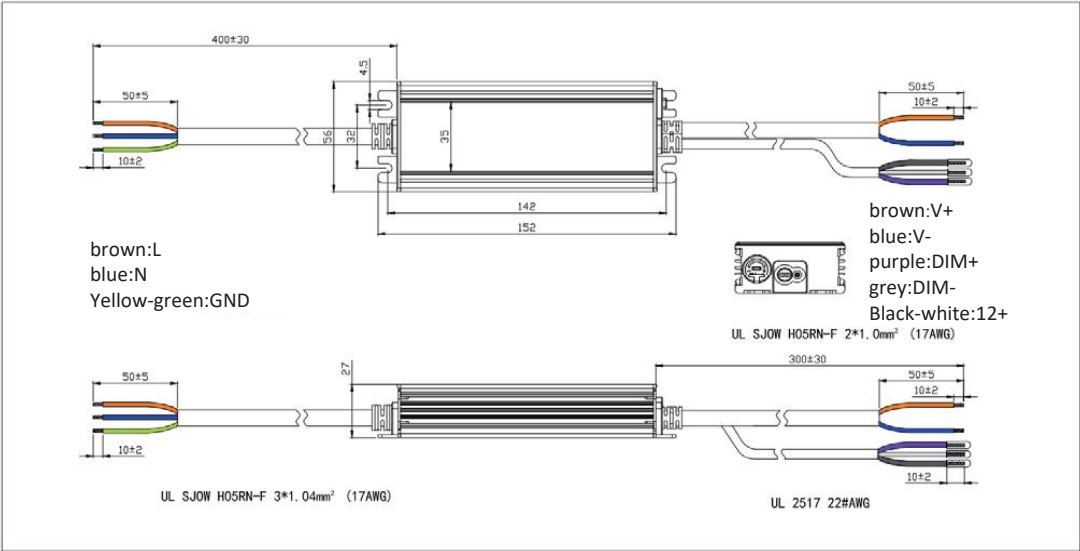
Note: AAP75-1050-S



Product datasheet

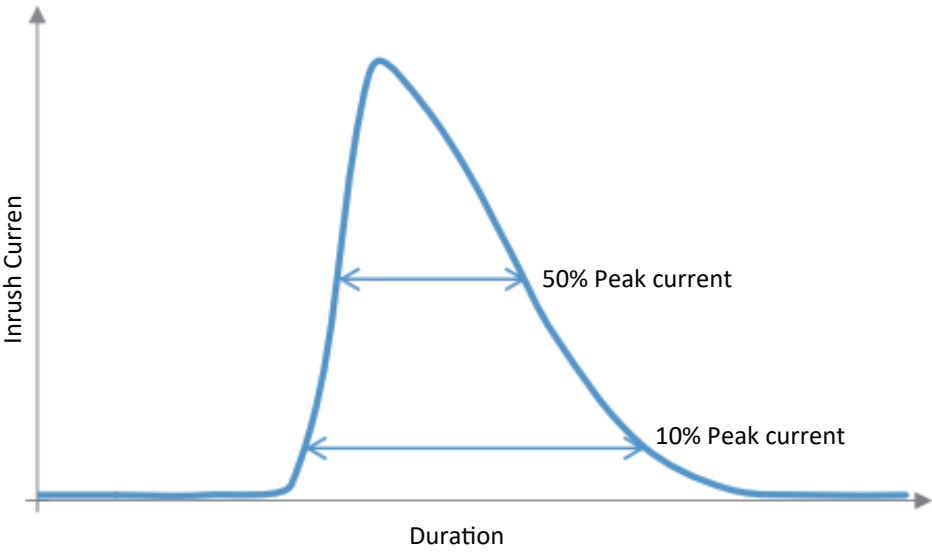
Exterior dimensions (unit: mm)

Note: AAP75-1050-X



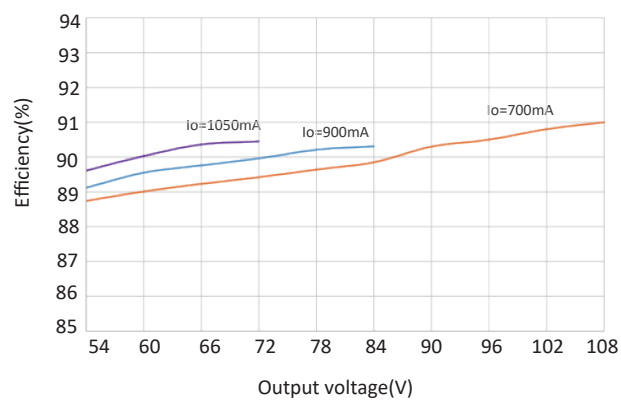
Characteristic curves

Vin	Peak current	Duration (@10% peak current)	Duration (@50% peak current)
120Vac	55A	346us	165us
230Vac	85A	352us	172us
277Vac	100A	335us	175us

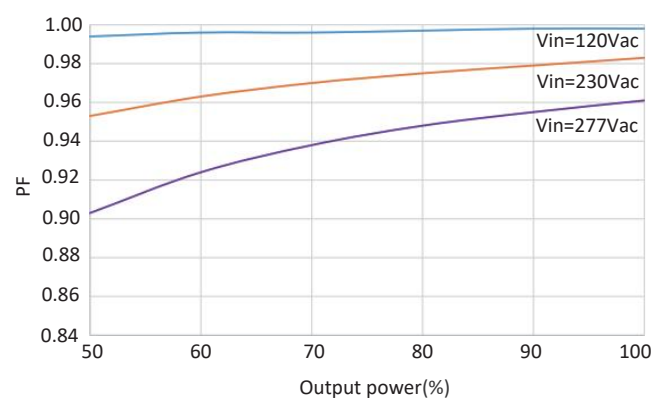


Characteristic curves

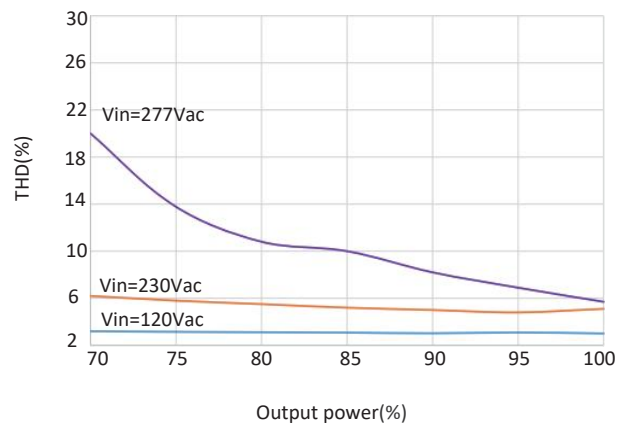
Efficiency vs Output voltage



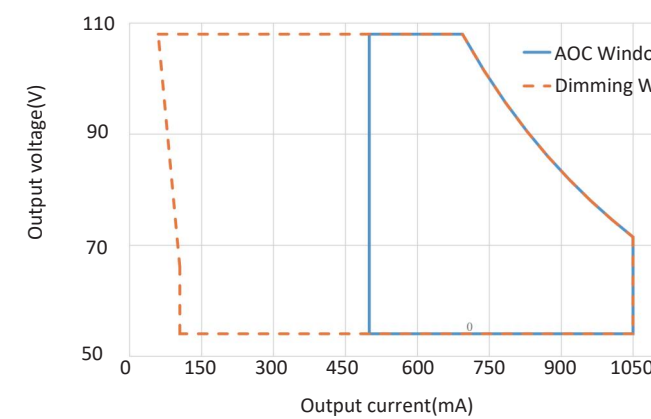
PF vs Output power



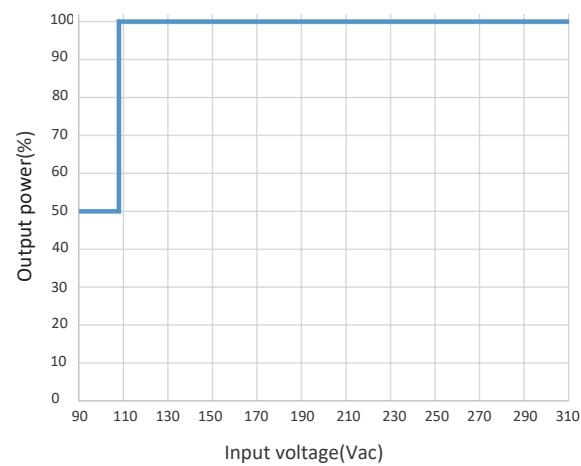
THD vs Output power



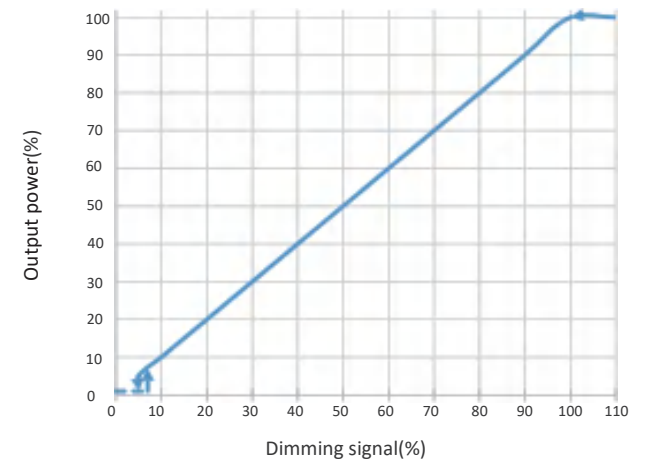
Output voltage vs Output current



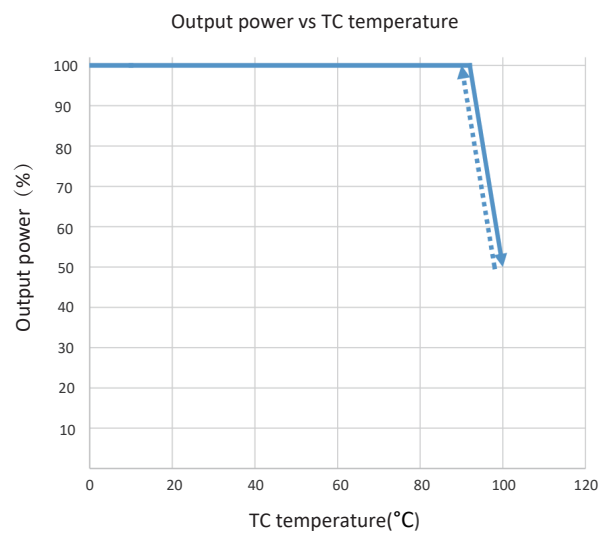
Output power VS Input voltage



Output power VS Dimming signal



Characteristic curves



Life curve

