

ANP61-24P-264-2500

Class II LED Power Supply



Features and Applications:

- Class 2 DC Output
- Active PFC (Power Factor Corrected)
- Built for Indoor Dry Applications
- Built-in EMI Filter for FCC B compliance
- Short and Over-Temperature Protection
- Dimming Control: 0-10V(10%-100%) or DALI(0%-100%)
- Comply with DALI standards (IEC62386)

All specifications are typical at nominal input, full load, at 25 °C unless otherwise stated.

Electrical Specs

INPUT

Input Voltage Range	198 - 264Vac
Rating Input Voltage Range	220 - 240Vac
DC	280 - 370Vdc
Frequency	47 - 63Hz
Input Current	Max. 0.6A @ 230Vac / 50Hz, full load
Inrush Current	0.09 A2S @ 230Vac / 50Hz , full load
Efficiency	86% typical @ 230Vac, full load
Power Factor	≥0.97 @ 230Vac, full load
THD	<15% @ 230Vac, full load
Leakage Current	0.5mA max.

OUTPUT

Output Voltage	See Table1
Max Output Current	See Table1
Line Regulation	<5%
Load Regulation	<5%
Output Power	60W Max.
Short Circuit Protection	Auto Recovery
OCP protection	<110% Iout and Auto Recovery
Start-up Time	< 1 Sec
Option	
Dimming Control:	DALI and 1-10V
Max. case Temp	95°C +/- 5°C

Safety Certifications(In process)

ENEC EN61347,EN62384




CE EN55015,EN61547



General

Isolation Voltage	3.0KV AC, AC-DC
Weight	225 g
MTBF	100,000 Hours at 25°C
Size	290*30*21 mm

Environmental

Operating Temp	-20°C to +50°C full load
Storage Temp	-40°C to +85°C
Relative Humidity	10% to 95% non-condensing
Cooling	Free air convection
MTBF	100,000 Hrs at 25°C
Ingress Protection:	IP20
RoHS	Compliant 

EMC & Surge

Conducted Emissions	EN55015, FCC part 15 level B
Radiated Emissions	EN55015, FCC part 15 level B
Surge Protection	EN61000-4-5, level 3 2KV L/N to PE; 1KV L-N

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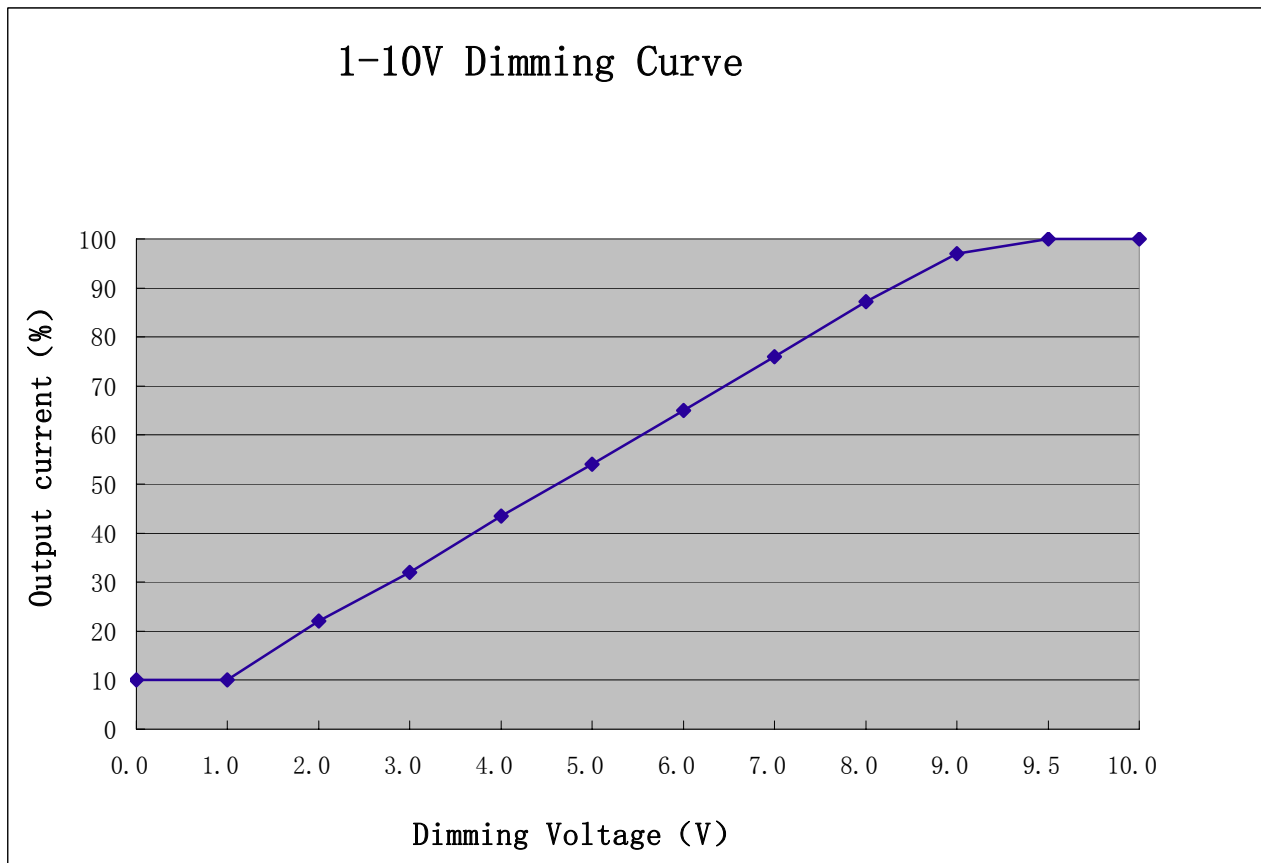


Table1: ANP61-XXP Model Output Specifications

Model	Output Voltage (Max)	Output Voltage Range(V)	# of Channels	Max Load current (mA)	Max Output Current Range(A)	Max. Output Power
ANP61-24P-264-2500-DA	24V	15-24	1	2500	+/-5%	60W

Note: 1.-DA for DALI function ; -CD for 1-10V function

1-10V Dimming Curve Graph



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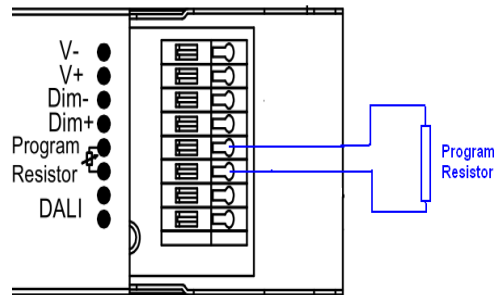
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ANP61-24P-264-2500 Program Resistor Vs Output Current

Iout(A)	Iout(%)	Program Resistor(KOHM)	Iout(A)	Iout(%)	Program Resistor(KOHM)	Iout(A)	Iout(%)	Program Resistor(KOHM)
2.5	100	OPEN	1.6	64.00	4.06	0.7	28.00	0.98
2.4	96.00	56	1.5	60.00	3.43	0.6	24.00	0.82
2.3	92.00	26.1	1.4	56.00	2.93	0.5	20.00	0.67
2.2	88.00	16.5	1.3	52.00	2.5	0.4	16.00	0.54
2.1	84.00	11.8	1.2	48.00	2.15	0.3	12.00	0.42
2.0	80.00	9.0	1.1	44.00	1.85			
1.9	76.00	7.15	1	40.00	1.58			
1.8	72.00	5.8	0.9	36.00	1.36			
1.7	68.00	4.8	0.8	32.00	1.16			

Resistor Calculate formulate :

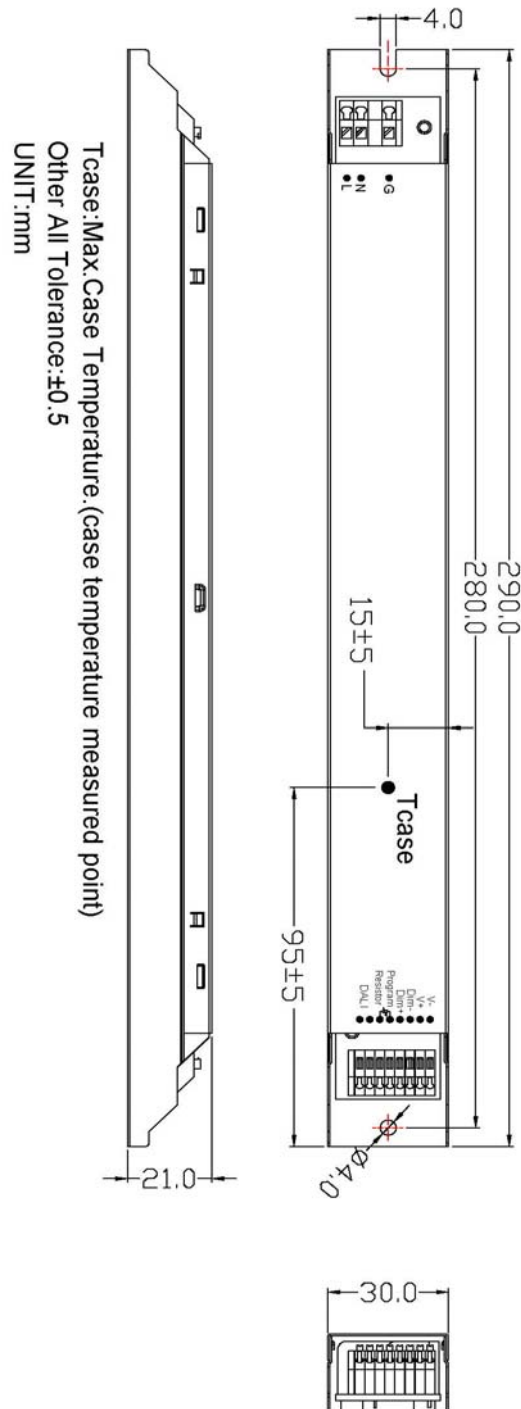


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Mechanical Information



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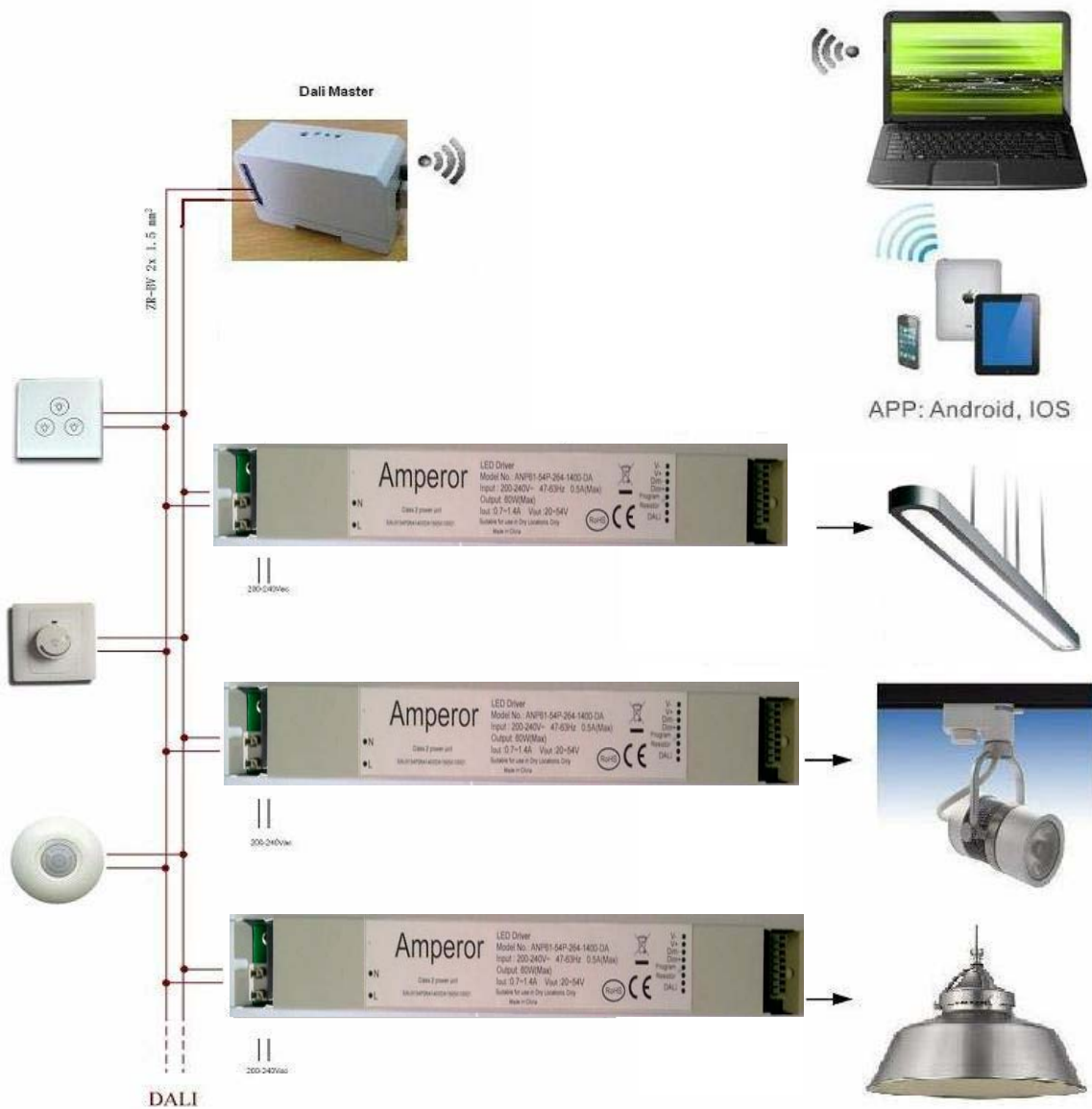
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Connection Diagram



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