

ANP39-54P-277-1000-DA

Class 2 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: 1-10V(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	100 - 277Vac
Rated Input Voltage Range	105 - 264Vac
DC	169 - 391DC
Frequency	50 - 60Hz
Input Current	Max. 0.6A @ 120Vac / 60Hz, full load
Inrush Current	20A @ 264Vac input/ 50Hz, full load
Efficiency	84% typical @ full load and 230Vac; Note 1
Power Factor	≥0.9@full load and 240Vac; Note 2
THD	<20%@full load and 240Vac; Note 3
Leakage Current	0.5mA max.

OUTPUT

Output Voltage	See Table1
Output Current	See Table1
Line Regulation	5% @120Vac +/- 10%
Load Regulation	5% @ 220Vac +/- 10%; 5% @ 277Vac +/- 10%
Short Circuit Protection	Auto-Recover
OCP protection	<120% Iout
Start-up Time	< 1 Sec @ 230Vac input.
Dimming Control:	DALI or 1-10V optional

Safety Certifications(In Process)

ENEC EN60950,EN60598



CE EN55024,EN55022,EN61000



General

Isolation Voltage	3.0KV AC, AC-DC
Weight	250g
Warranty Info	3 years
MTBF	100,000 Hours at 25°C
Size	235*30*21 mm

Environmental

Operating Temp	-20°C to +50°C full load
Storage Temp	-40°C to +85°C
Max Case Temp (Tcase)	+95°C full load
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

Amperor Inc.
11320 Neeshaw Dr.,
Houston, TX 77065
1-281-807-3320
<http://www.amperor.com>

Amperor & Associates
Unit 5, Kyle Business Park, Cunninghame Road
Irvine KA12 8JJ Scotland U.K
44-(0)-1294-276096
<http://www.amperorassociates.co.uk>

Intertek Corp, an Amperor Company
4th, Fl, Far East World Centre
Hsin Tai Wu Road, Hsin-Chih, Taipei, Taiwan R.O.C
886-2-2698-2239

Rev:B0

ANP39-54P-277-1000-DA

Class 2 LED Power Supply

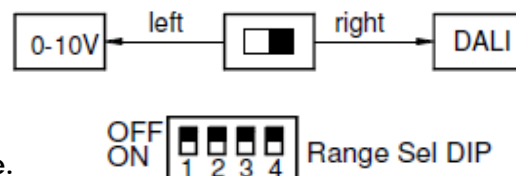


Table1: ANP39-54P-277-1000-DA Model Output Specifications

Model	Output Voltage (Max)	Output Voltage Range(V)	# of Channels	Max Load current (mA)	Output Current Tolerance	Max. Output Power
ANP39-54P-277-1000-DA	54V	30-54	1	1000	+/-7%	40W

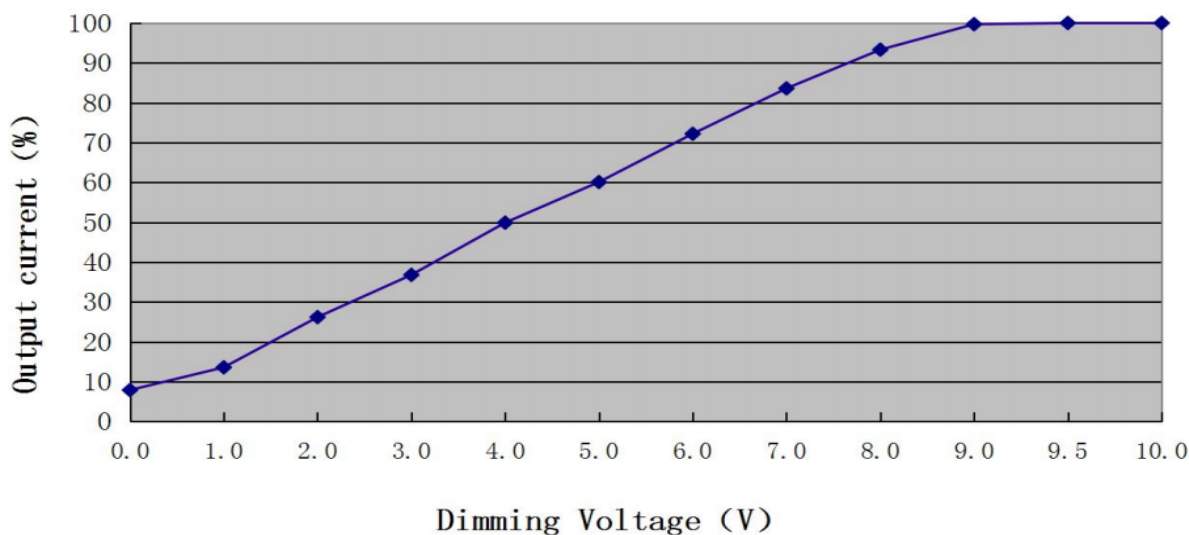
- Note:**
- 1.The max output wattage is limited to 40W and the max output current is limited to 1A.
 - 2.The output current range is selectable by the range selection dip switch.
 - 3.The range selection switch may set the output current to 54V-350mA, 54V-500mA, 54V-700mA, and 40V-1000mA,the min output current is 10% at the min dimming voltage.
 - 4.-DA function including DALI and 1-10V function,only select one of two.
 - 5.Dim Selection Switch: Turn left for 0-10V Dimming and Turn right for Dali Dimming.
 - 6.Range selection switch:

All pin off , output at 54V and 350 mA range
pin1 on else off, output at 54V and 500mA
pin1 、 2 on else off, output at 54V and 700mA range.
pin1 、 2、 3 on else off, output at 40V and 1000mA range.



0-10V Dimming Curve Graph

0-10V Dimming Curve



Amperor Inc.
11320 Neeshaw Dr.,
Houston, TX 77065
1-281-807-3320
<http://www.amperor.com>

Amperor & Associates
Unit 5, Kyle Business Park, Cunninghame Road
Irvine KA12 8JJ Scotland U.K
44-(0)-1294-276096
<http://www.amperorassociates.co.uk>

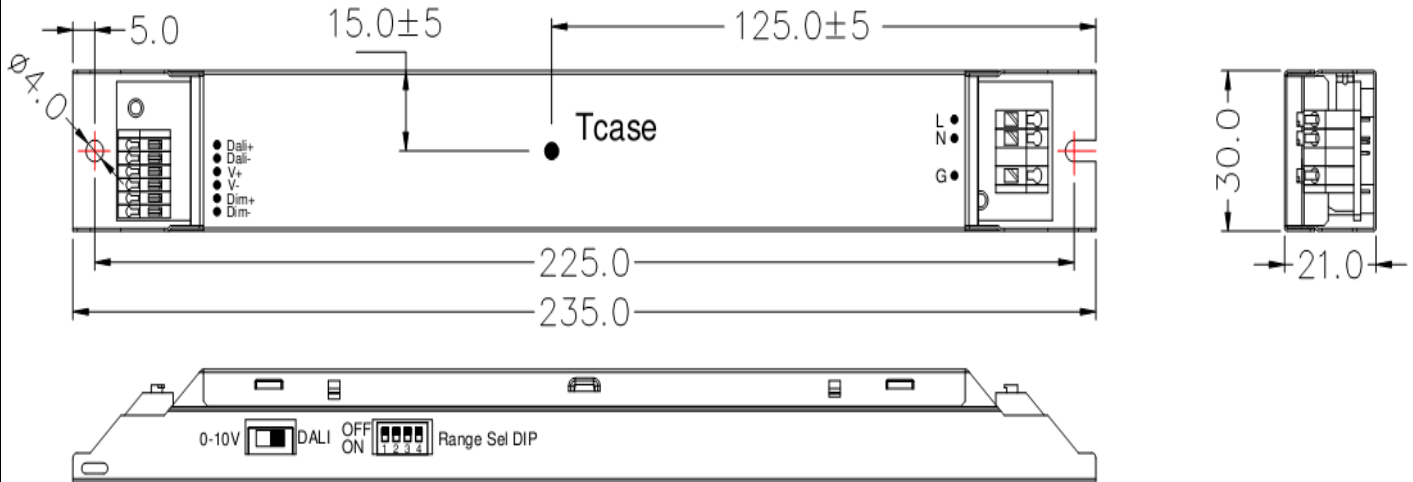
Intertek Corp, an Amperor Company
4th, Fl, Far East World Centre
Hsin Tai Wu Road, Hsin-Chih, Taipei, Taiwan R.O.C
886-2-2698-2239

ANP39-54P-277-1000-DA

Class 2 LED Power Supply



Mechanical Information



		Range Sel DIP			
		OFF	ON	ON	ON
		1	2	3	4
Vo DC	Current	1	2	3	4
54V	350mA	-	-	-	-
54V	500mA	ON	-	-	-
54V	700mA	ON	ON	-	-
40V	1000mA	ON	ON	ON	-

Tcase:Max.Case Temperature.(case temperature measured point)
 Other All Tolerance:±0.5
 UNIT:mm

Amperor Inc.
 11320 Neeshaw Dr.,
 Houston, TX 77065
 1-281-807-3320
<http://www.amperor.com>

Amperor & Associates
 Unit 5, Kyle Business Park, Cunninghame Road
 Irvine KA12 8JJ Scotland U.K
 44-(0)-1294-276096
<http://www.amperorassociates.co.uk>

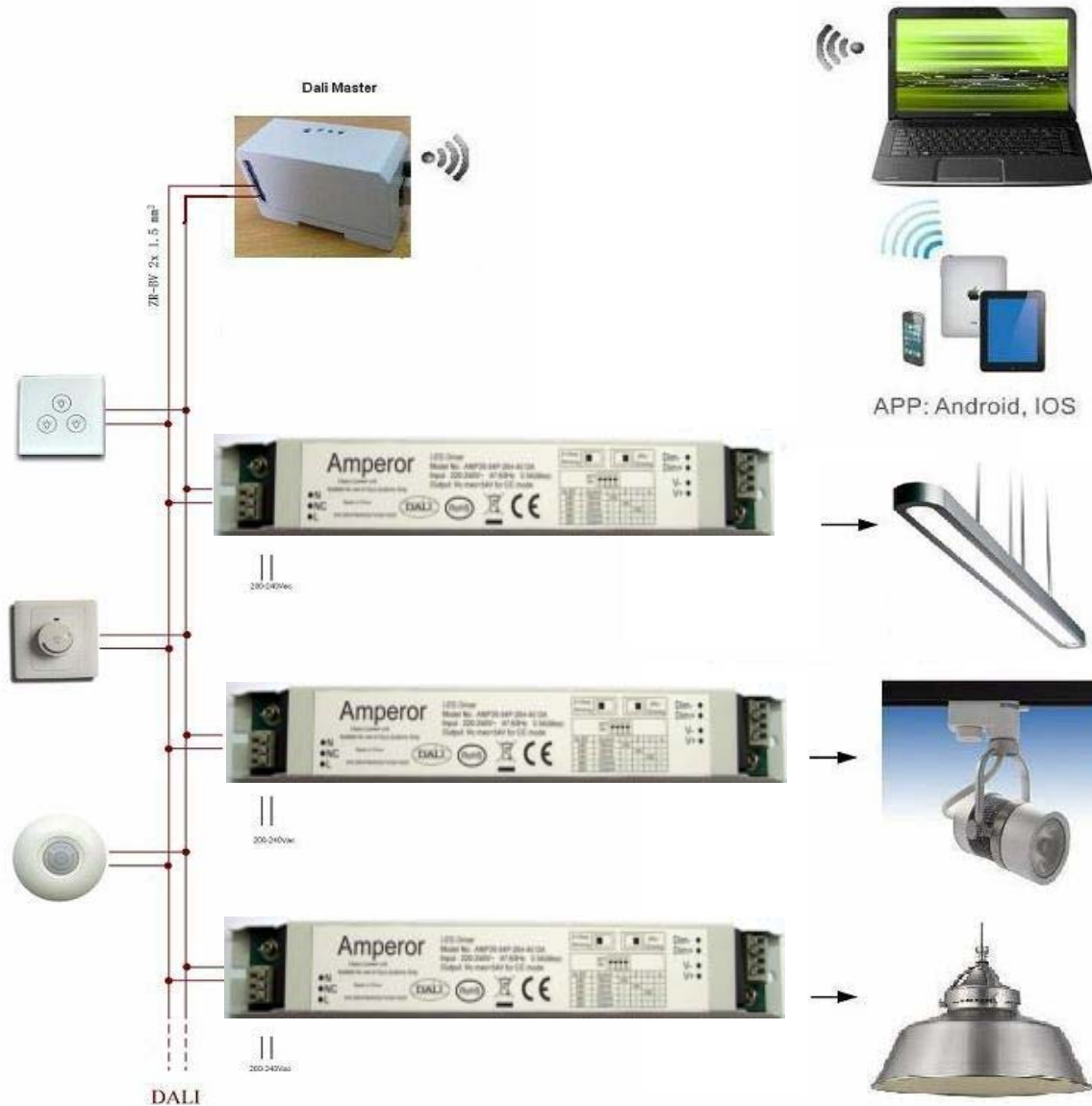
Intertek Corp, an Amperor Company
 4th, Fl, Far East World Centre
 Hsin Tai Wu Road, Hsin-Chih, Taipei, Taiwan R.O
 886-2-2698-2239

ANP39-54P-277-1000-DA

Class 2 LED Power Supply



Connection Diagram



Amperor Inc.
11320 Neeshaw Dr.,
Houston, TX 77065
1-281-807-3320
<http://www.amperor.com>

Amperor & Associates
Unit 5, Kyle Business Park, Cunninghame Road
Irvine KA12 8JJ Scotland U.K
44-(0)-1294-276096
<http://www.amperorassociates.co.uk>

Intertek Corp, an Amperor Company
4th, Fl, Far East World Centre
Hsin Tai Wu Road, Hsin-Chih, Taipei, Taiwan R.O.C
886-2-2698-2239