

AE-PS42-XXXNE-IP20

42W

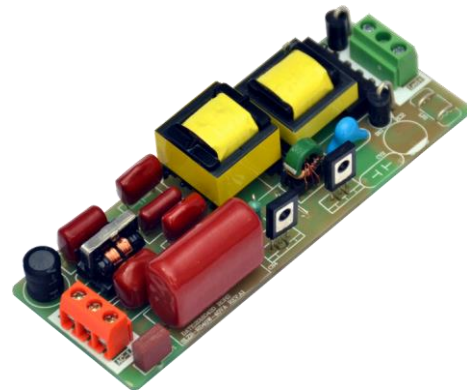
LED driver

Long life series

Fixed current

350/600/700/800/1000mA

Long life series utilizes Metallized Polypropylene Film Capacitors which have no aging effect. Stable working at wide range of temperatures -55C to +60C.



Features

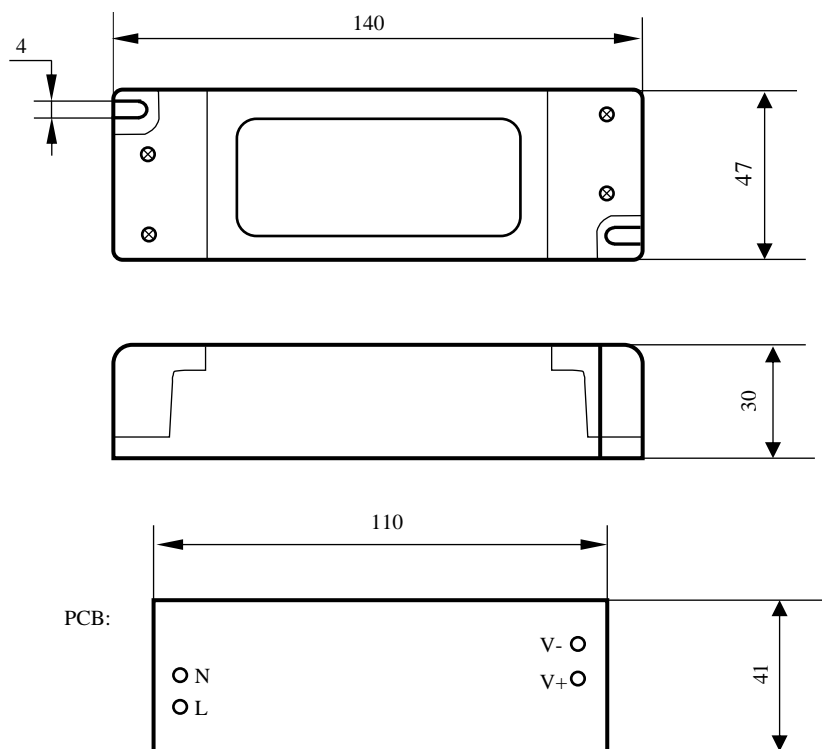
- Non electrolytic
- Fixed output current
- Small dimensions
- Efficiency > 90%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- IP20 design for indoor installations
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Compliance to worldwide safety regulations for lighting
- 3 years warranty

Applications

- Linear and area lighting
- Office – Industrial – Shop
- Suitable for LED lighting and moving sign applications
- Suitable for dry locations

Product overview

Unit: mm



Electrical input data

Item	Value	Unit
Nominal voltage	220 - 240	Vac
Nominal frequency	50/60	Hz
Voltage range	180 - 280	Vac
Frequency range	47-63	Hz
Power factor	>0.95	Full load
Efficiency	>0,9	%, Full load
Nominal current	0.2	A
Total Harmonic Distortion	<20	%
Surge Immunity	3000	V

Electrical output data

Item	PS42-350NE	PS42-600NE	PS42-700NE	PS42-800NE	PS42-1000NE	Unit
Output voltage range	71 - 120	41 - 70	35 - 60	30 - 53	25 - 42	Vdc
Output current	0,35	0,6	0,7	0,8	1	A
Output power range	25 - 42	25 - 42	25 - 42	25 - 42	25 - 42	W
Output current tolerance	± 5	± 5	± 5	± 5	± 5	%
Output current ripple	< 3	< 3	< 3	< 3	< 3	%
EMC	0,009 – 300	0,009 – 300	0,009 – 300	0,009 – 300	0,009 – 300	MHz

Protection

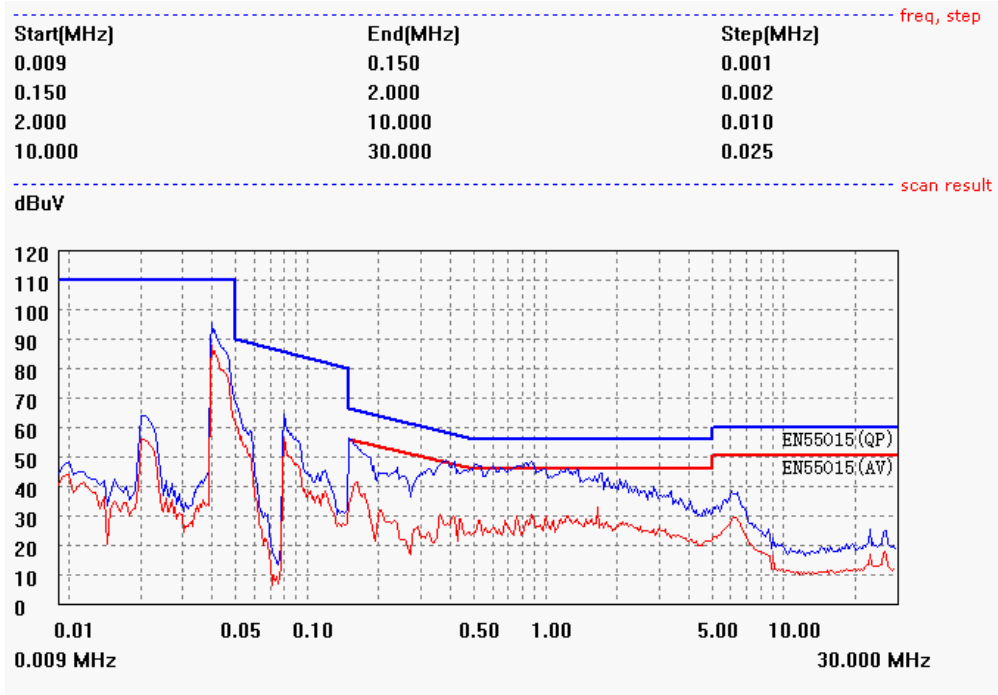
Item	Value	
Over current	Yes	
Short circuit	Yes	
Over voltage	Yes	
Over temperature	Yes	150C (IC temperature)

Environment

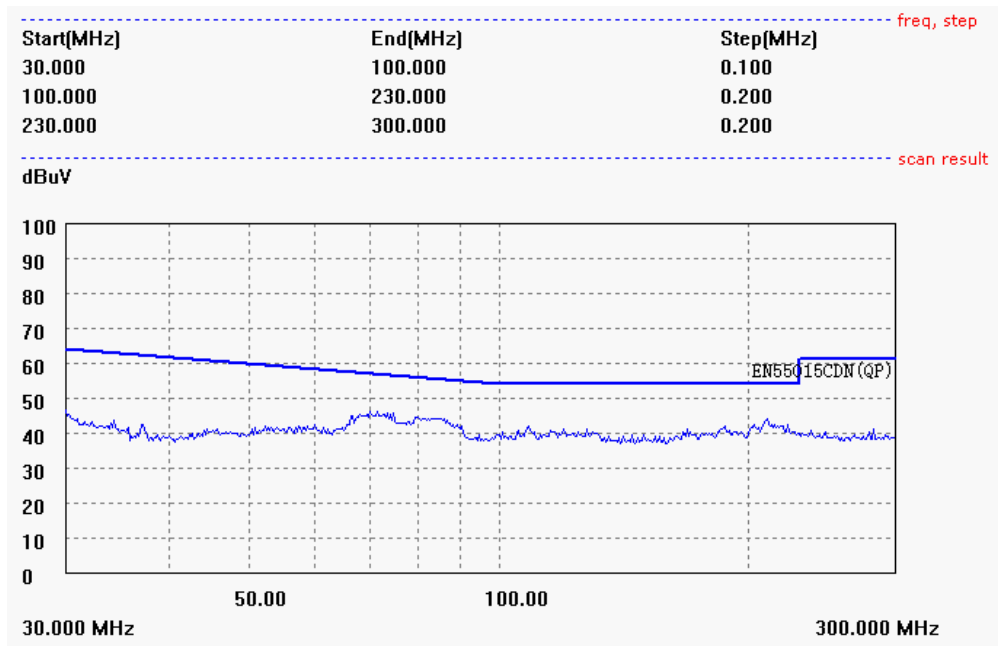
Item	Value	Unit
Ambient temperature range	-55 ...+60	°C
Maximum case temperature	75	°C
Max. case temp. in fault condition	110	°C
Storage temperature range	-55 ...+85	°C
Relative humidity	5 - 85	%, non-condensing
Environmental rating	Indoor	
IP rating	IP 20	
Mains switching cycles	> 150'000	
Expected lifetime	75'000 100'000	h, tc max h, tc -10

EMI test reports

0.009 – 30 MHz



30 – 300 MHz



Harmonic Distortions

Total 14,75%

	2	3	4	5	6	7	8	9	10	11	13	15	17	19	21
%	0,2	10,6	0,12	5,8	0,2	4,4	0,15	3,15	0,1	2,5	2,7	2,5	2,2	1,75	1,4

Dimensions and weight

Item	Value	Unit
In Case:		
Length	140	mm
Width	47	mm
Height	30	mm
Weight	0,13	kg
Open board:		
Length	110	mm
Width	41	mm
Height	25	mm
Weight	0,08	kg

Packing and logistics

Item	Value
Order part number	PS42-350NE-IP20 PS42-600NE-IP20 PS42-700NE-IP20 PS42-800NE-IP20 PS42-1000NE-IP20
Group box package	90 pcs per box / 300*350*250mm / 11.8 kg. approximately