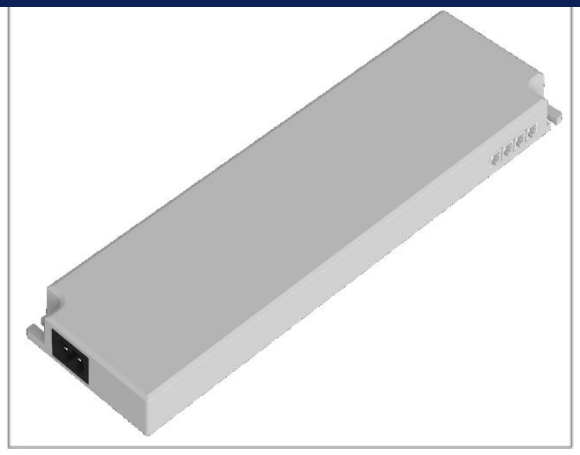
Constant Voltage LED Power Supply

SNP72-12VFC-UE
SNP72-24VFC-UE



Product description

SNP72 is an indoor constant voltage LED driver, with an input voltage range of 100-240Vac and a maximum conversion efficiency of up to 90%. It adopts fanless design and operates in the temperature range of -20 ° C to+45 ° C natural cooling and cooling casing, and has ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, and comprehensive protection functions. It not only greatly improves product reliability, but also ensures product life cycle. This series of products is designed for LED lighting design and applied to indoor lighting. It is suitable for various application environments in almost all indoor places where LED luminaires can be installed. Comply with the world's lighting safety regulations, and at the same time ensure the safety of users and lighting systems during installation.

Standards

EN61347-1
EN61347-2-13
EN61547
EN55015
EN61000-3-2
EN61000-3-3
EN62384
EN62493
ERP

Characteristics

- AC input（100-240VAC）
- With active PFC function
- IP20
- Suitable for dry indoor environment
- Protections: Short circuit / Over voltage / Over temperature
- Adopt plastic case
- Compliance to worldwide safety regulations for lighting

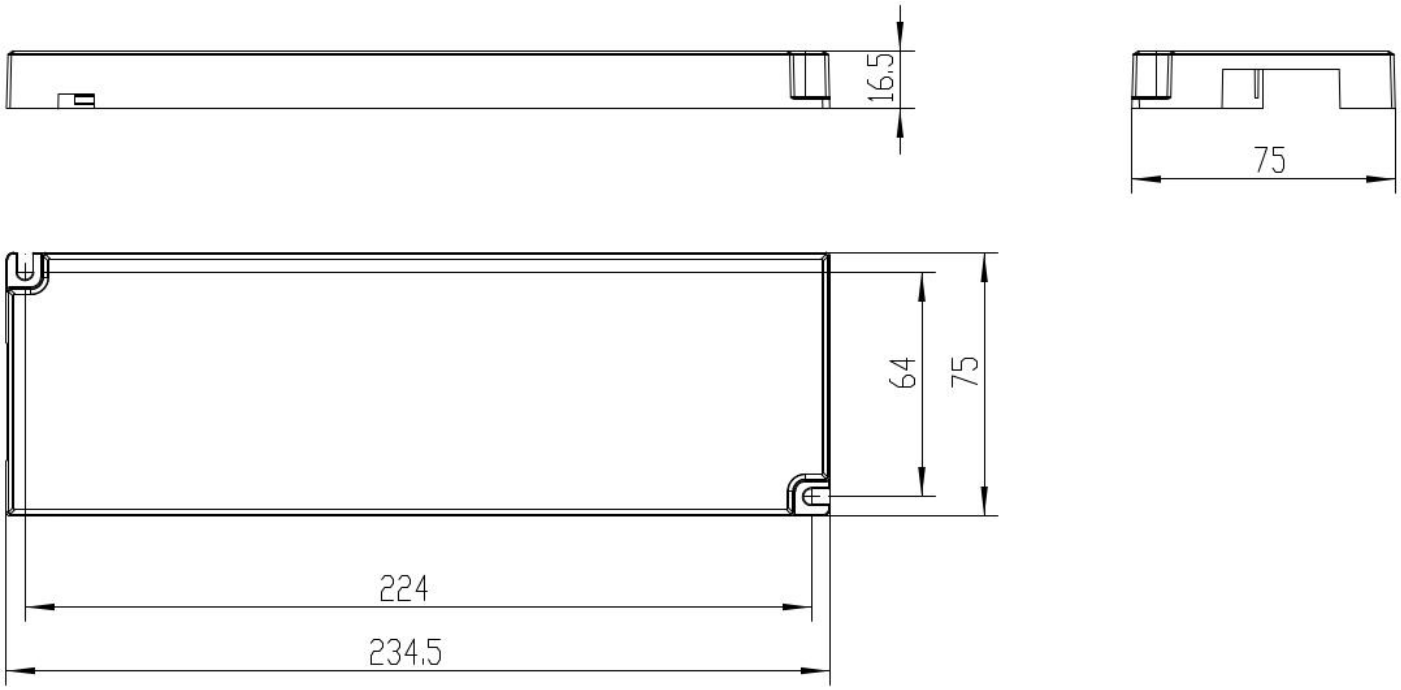
SNAPPY
KNOW HOW. NO LIMITS.

Specifications

Model		SNP72-12VFC-UE	SNP72-24VFC-UE		
Output	turn on time(S)	＜0.5	＜0.5		
	output power(W)	72	72		
	output voltage(V)	12	24		
	output voltage tolerance	≤±5%	≤±5%		
	ripple voltage(mV)	388	268		
	Line Regulation	±3%	±3%		
	Load Regulation	±3%	±3%		
	working current range(A)	0-6	0-3		
	SVM	full load SVM≤0.4	full load SVM≤0.4		
	Pst	full load Pst LM≤1	full load Pst LM≤1		
	dimming type	N/A	N/A		
	dimming range	N/A	N/A		
Input	rated DC supply voltage(Vdc)	--	--		
	rated supply voltage(Vac)	100-240	100-240		
	voltage range(Vac)	90-264	90-264		
	line frequency(Hz)	50/60	50/60		
	input current(A)	0.359/230V	0.35/230V		
	efficiency	≥89%@full load	≥90%@full load		
	average efficiency 3	≥89%	≥90%		
	no load power consumption(W)	≤0.5W	≤0.5W		
	power factor	0.97@full load	0.96@full load		
	THD(typ.)	60-100% loaded sub-harmonics	60-100% loaded sub-harmonics		
	inrush current(Ipk)	74A/414uS	74A/408uS		
	Leakage current				
Protection	short circuit protection	hiccup mode, restart automatically after fault correction.	hiccup mode, restart automatically after fault correction.		
	over load protection	exceed maximum rated load times 1.2	exceed maximum rated load times 1.2		
	Over voltage protection	N/A	N/A		
	Over temperature protection	Ta：50±5℃	Ta：50±5℃		

	surge capacity	L-N: 1KV	L-N: 1KV		
	Withstand voltage	Input-Output： 3750V/5mA/1min	Input-Output： 3750V/5mA/1min		
Ambient and Life	Ta(C)	-20…45	-20…45		
	Tc max.(C)	max.90	max.80		
	Storage Temperature(C)	-30...80	-30...80		
	ambient humidity range	5%...85%RH, Not condensing	5%...85%RH, Not condensing		
	nominal life-time(hrs)	30'000@Ta	30'000@Ta		
Other	dimensions (L×W×H)(mm)	234.5*75*16.5	234.5*75*16.5		
	weight(g)	260G	260G		
	casing material	Plastic	Plastic		
	housing colour	White	White		
	type of protection	IP20	IP20		
	protection class	class II	class II		
	certificate				
Note	1.Tolerance:includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs. 3.Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values. 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 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-qualify EMC Directive on the complete installation again. 6.The output switch interval is recommended more than 1S, the LED power supply may be protected if quick switching，then recover within 3S.				

Dimensions(mm)



Wiring Diagram

INPUT

- N
- L

LED POWER SUPPLY

AC	terminal + H03VVH2-F 2*0.75mm2
DC	terminal + H03VVH2-F 2*0.2mm2 x8

DALI Dimming Solution Connection Diagram
PUSH Dimming Solution Connection Diagram

Electrical curves

SNP72-24VFC-UE

Fig. 1 Output load-Temperature curve

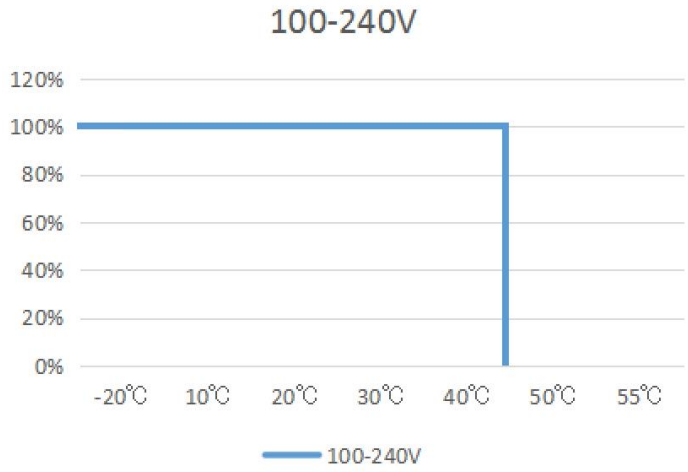


Fig. 2 Static characteristic curve

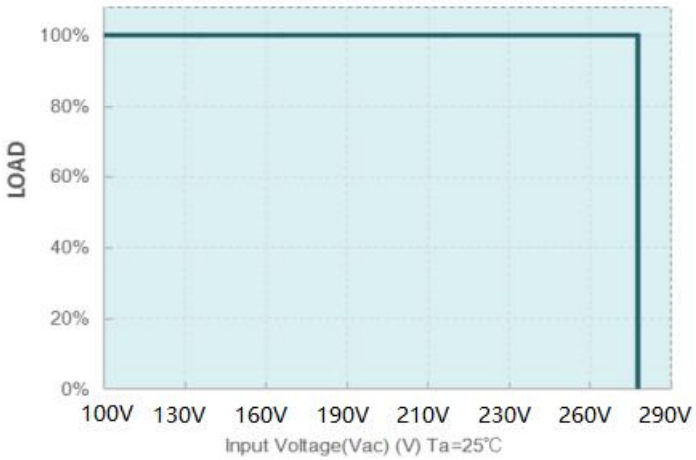


Fig. 3 I-V curve

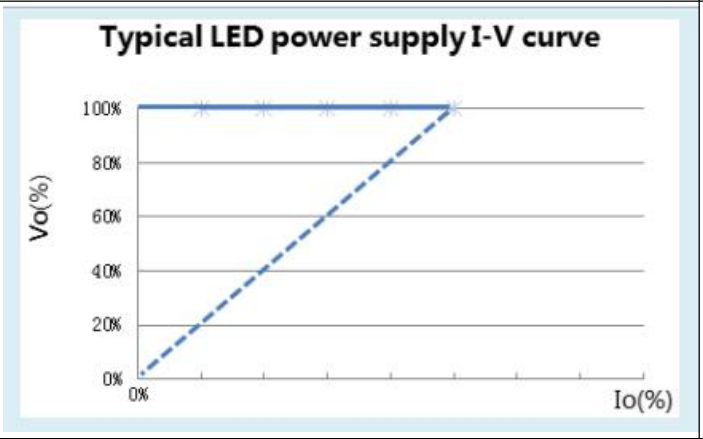


Fig. 4 Power factor characteristic curve

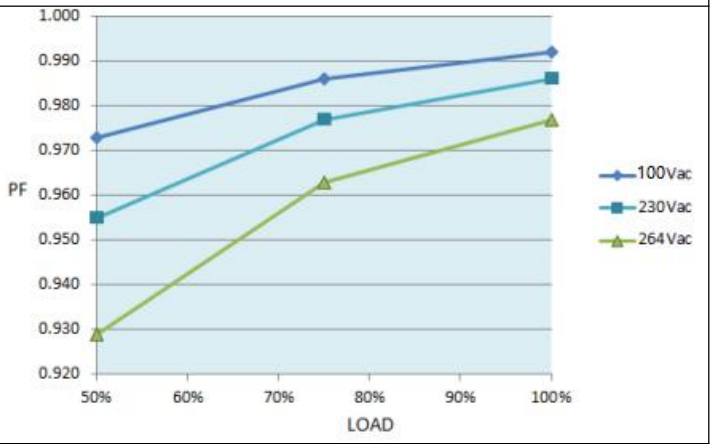


Fig.5 Total harmonic distortion curve（THD）

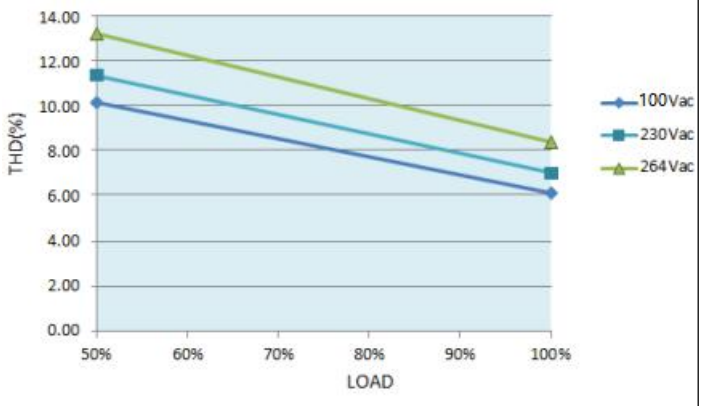
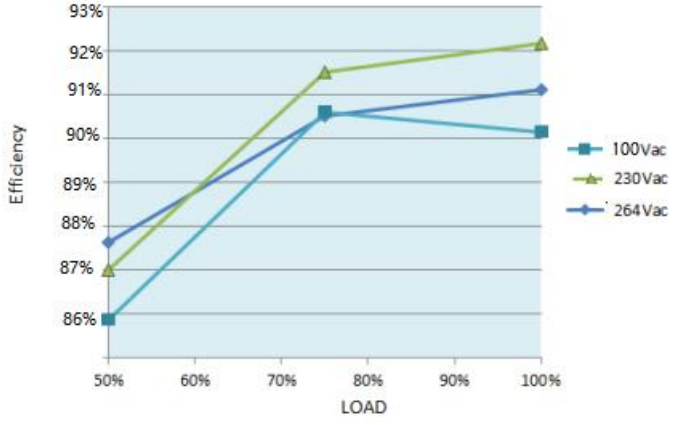


Fig.6 Efficiency-Load curve



Electrical curves

SNP72-12VFC-UE

Fig. 1 Output load-Temperature curve

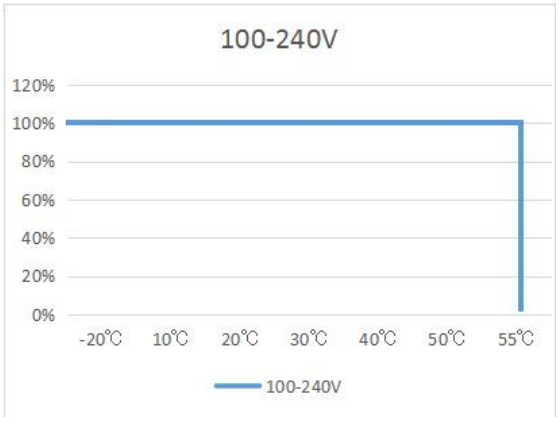
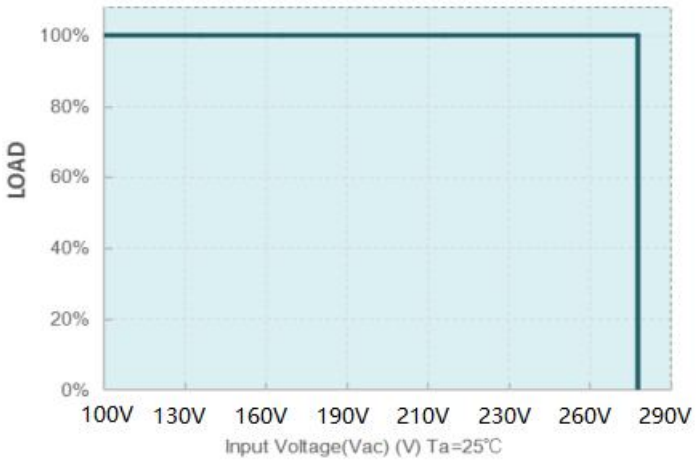


Fig. 2 Static characteristic curve



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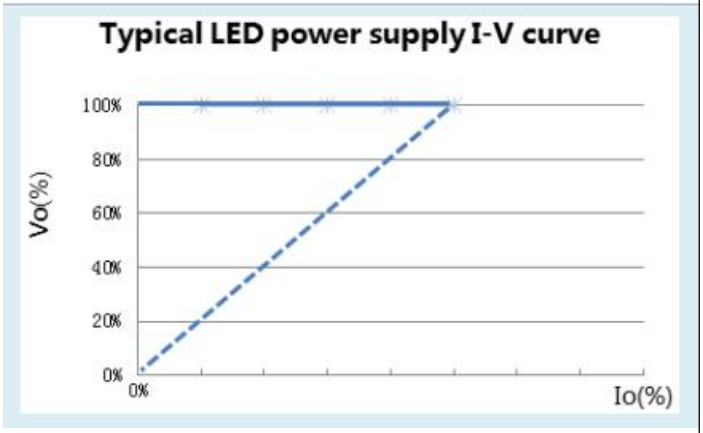

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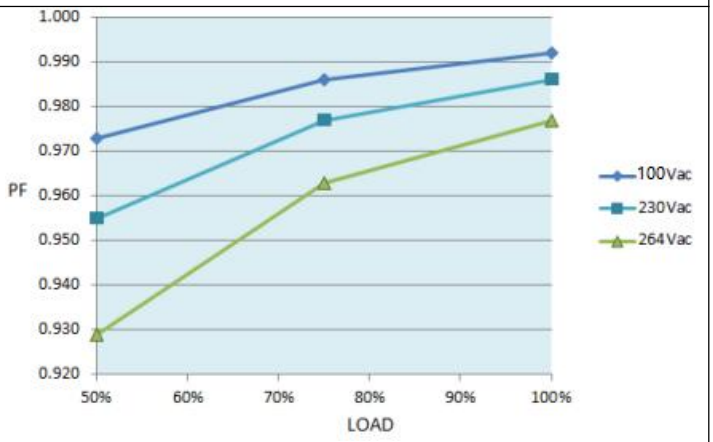

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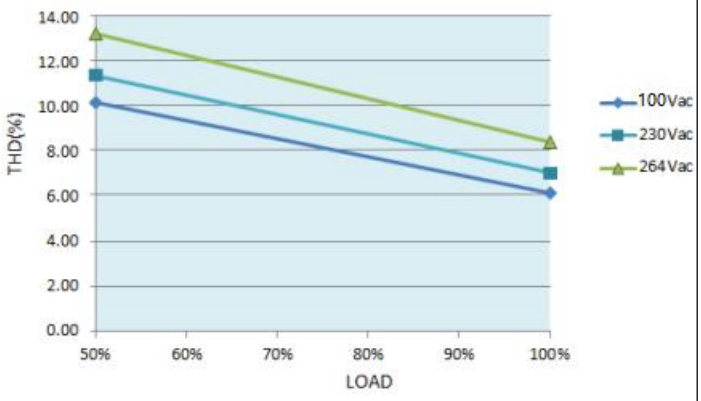

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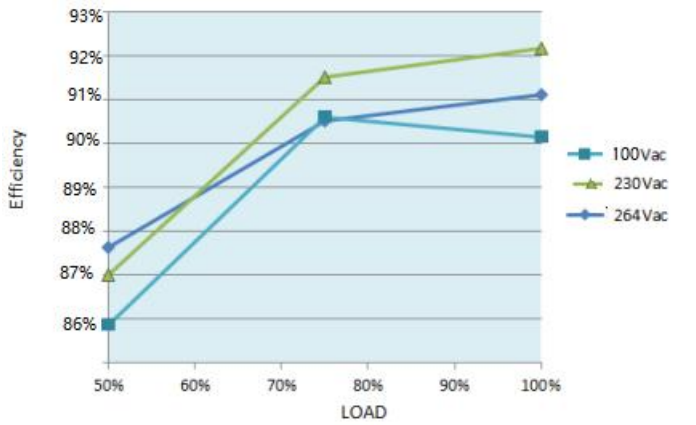

MCBS

MCBS / Model	B10	B13	B16	B20	C10	C13	C16	C20
SNP72-12VFC-UE	6	7	9	12	10	13	16	20
SNP72-24VFC-UE	6	7	9	12	10	13	16	20

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SNP72-12VFC-UE			
SNP72-24VFC-UE			

Dimmer Compatibility Chart

Fill in thyristor TRIAC DIMMABLE selection

Manufact urer	Dimmer Mode l
LUTRON	SKYLARK SF- 12P-277(277VAC / 60Hz)
LUTRON	DVF- 103P-277(277VAC / 60Hz)
LUTRON	SKYLARK SF- 10P(120VAC / 60Hz)
LUTRON	SKYLARK S-600P(120VAC / 60Hz)
LUTRON	SKYLARK DVF- 103P(120VAC / 60Hz)
LEVITON	ILLUMATECH TM Cat .No . IP106(120VAC / 60Hz)
LEVITON	SURESLIDE TM Cat .No .6633-P(120VAC / 60Hz)
LEVITON	SURESLIDE TM Cat. NO.6615-P(120VAC / 60Hz)
JUNG	L ic ht- Management 225 TDE(230VAC / 50Hz)
JUNG	L ic ht- Management 225 NV DE(230VAC / 50Hz)
BERKER	Tronic- Drehdimmer 286710(230-240VAC / 50Hz)
Bodo E h mann LICHTREGLER	T39 .01(230VAC / 50Hz)
CLIPSAL	32E450UDM (220-240VAC / 50Hz)
CLIPSAL	NO 32E450TM(220-240VAC / 50Hz)

Conduction angle: 30 degrees(min.) / 180 degrees(max.)

(Fill in as appropriate. The above only consults to the font, font size, color)

Revision history

Date	Rev.	Remark
2023.1.16	V0.01	Initial release.
2023.1	V0.02	Increase the product over-temperature protection function