Constant Voltage LED Power Supply SEA120-24VL SEA120-48VL



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Product description

SEA120 is an indoor constant voltage LED driver power supply with an input voltage range of 220-240Vac and a conversion efficiency of up to 90%. It works in the natural cooling case temperature range of -20°C~+45°C and has Ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, and all-round protection functions not only greatly improve product reliability, but also ensure product life cycle. This series of products is designed for LED lighting design and used in indoor lighting. Suitable for various application environments in almost all indoor places where LED lamps can be installed. Complies with world lighting equipment safety regulations while ensuring the safety of users and lighting systems during installation.

Standards

EN61347-1 EN61347-2-13 AS/NZS 61347.2.13 EN55015 EN61000-3-2 EN62493

Characteristics

. European AC input range (220-240VAC)

- . With active PFC function
- . Waterproof grade IP20
- . Suitable for indoor environments
- . Protection type: short circuit/overvoltage/overtemperature protection
- . Made of plastic shell and filled with glue inside.
- . Comply with world lighting equipment safety regulations
- . 5 years warranty



Specifications

| Model | | SEA120-24VL | SEA120-48VL | |
|------------|---------------------------------|--|--|--|
| | turn on time(S) | <0.5 | <0.5 | |
| | output power(W) | 120 | 120 | |
| | output voltage(V) | 24 | 48 | |
| Output | output voltage tolerance | ±5% | ±5% | |
| | ripple voltage | ±3% | ±3% | |
| | Line Regulation | ±3% | ±3% | |
| | Load Regulation | ±3% | ±3% | |
| | working current range(A) | 0-5 | 0-2.5 | |
| | SVM | SVM≤0.4 | SVM≤0.4 | |
| | Pst | Pst LM≤1 | Pst LM≤1 | |
| | dimming type | N/A | N/A | |
| | dimming range | N/A | N/A | |
| | rated DC supply voltage(Vdc) | | | |
| | rated supply voltage(Vac) | 220-240 | 220-240 | |
| | voltage range(Vac) | 198-264 | 198-264 | |
| | line frequency(Hz) | 50/60 | 50/60 | |
| | input current(A) | 0.7/198V | 0.7/198V | |
| nput | efficiency | 89%@full load | 90%@full load | |
| | average efficiency 3 3 | 89% | 90% | |
| | no load power consumption(W) | ≤0.5W | ≤0.5W | |
| | power factor | 0.95@full load | 0.95@full load | |
| | THD(typ.) THD () | 10% | 10% | |
| | inrush current(lpk) (lpk) | 55A/200uS | 55A/200uS | |
| | Leakage current | <0.7mA | <0.7mA | |
| | 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 | IC detect | IC detect | |
| Protection | surge capacity | L-N: 1000V | L-N: 1000V | |
| | Withstand voltage | Input-Output: 3750V/5mA/1min | Input-Output: 3750V/5mA/1mir | |
| | Ta(C) | -2045 | -2045 | |

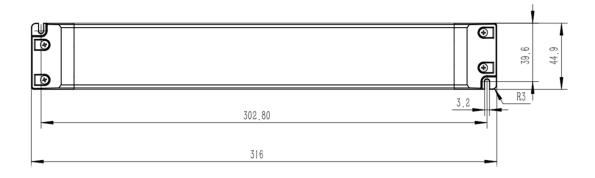


| | Tc max.(C) | max.85 | max.85 | |
|---------------------|---|----------------------------|----------------------------|--|
| Ambient and Life | Storage Temperature(C) | -4085 | -4085 | |
| | ambient humidity range | 5%85%RH, Not condensing | 5%85%RH, Not condensing | |
| | nominal life-time(hrs) | 50'000@Ta | 50'000@Ta | |
| Other | dimensions (L×W×H)(mm) | 316*44.9*33 | 316*44.9*33 | |
| | weight(g) | 530 | 530 | |
| | casing material | Plastic | Plastic | |
| | housing colour | White | White | |
| | type of protection | ection 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. | | | |



Dimensions(mm)

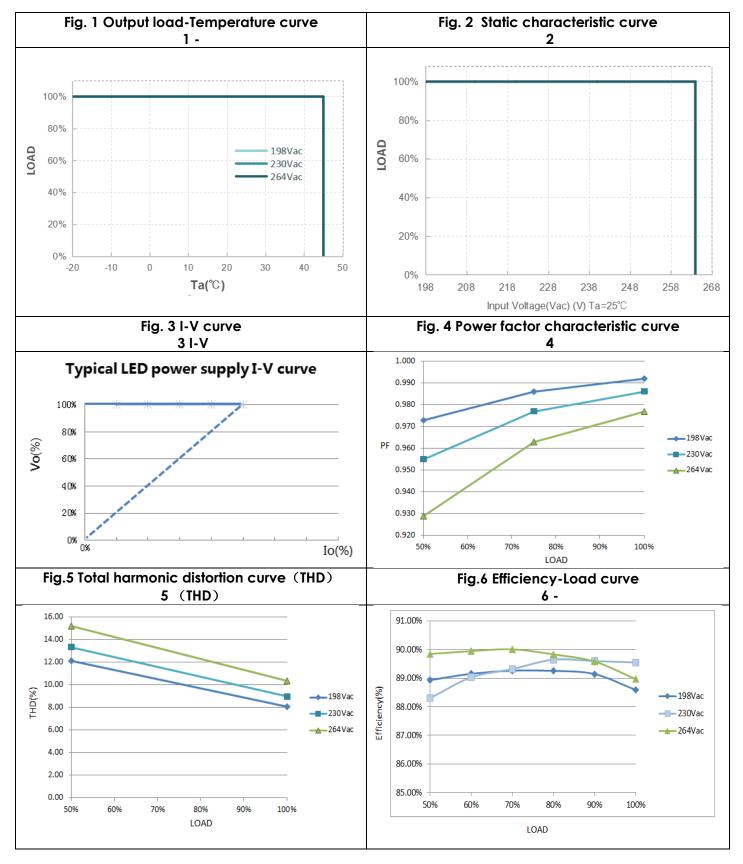




| AC | Terminal block H03VVH2-F 2*0.75mm ² |
|----|--|
| DC | Terminal block H03VVH2-F 2*0.75mm2 *2 |



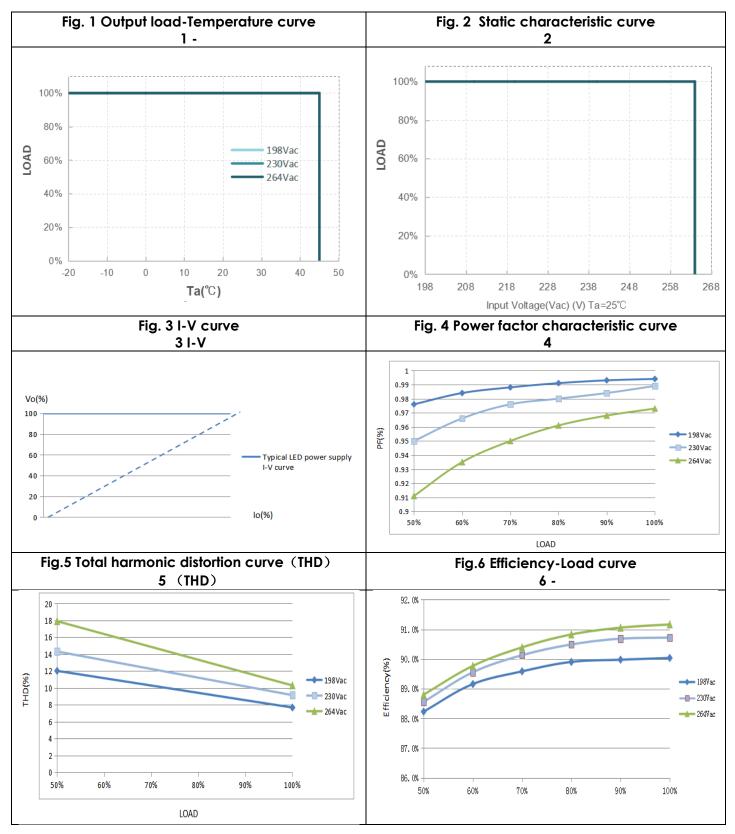
SEA120-24VL



Electrical curves









MCBS

| MCBS Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| SEA120-24VL | 4 | 6 | 7 | 9 | 7 | 10 | 12 | 15 |
| SEA120-48VL | 4 | 6 | 7 | 9 | 7 | 10 | 12 | 15 |

Package

| Model | Carton quantity(pcs) | Carton dimension(mm) | G.W./CTN(kg) |
|-------------|----------------------|----------------------|--------------|
| SEA120-24VL | | | |
| SEA120-48VL | | | |

Revision history

| Date | Rev. | Remark |
|-----------|------|-------------------|
| 2023.8.11 | AO | SEA120-48VL added |
| 2023.8.11 | A1 | Format update |

