SIEMENS

Data sheet 6EP1334-1AL12

SITOP POWER 24 V/10 A, FLAT DESIGN SITOP POWER 10, SPECIAL LINE STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/10 A



| Input | |
|--|---|
| Input | 1-phase AC |
| Supply voltage | |
| 1 at AC Rated value | 120 V |
| • 2 at AC Rated value | 230 V |
| • Note | Set by means of selector switch on the device |
| Input voltage | |
| ● 1 at AC | 85 132 V |
| • 2 at AC | 170 264 V |
| Wide-range input | No |
| Overvoltage resistance | 2.3 × Vin rated, 1.3 ms |
| Mains buffering at lout rated, min. | 20 ms; at Vin = 93/187 V |
| Rated line frequency | 50 60 Hz |
| Rated line range | 47 63 Hz |
| Input current | |
| at rated input voltage 120 V | 4 A |
| at rated input voltage 230 V | 2.5 A |
| Switch-on current limiting (+25 °C), max. | 65 A |
| Duration of inrush current limiting at 25 °C | |

| • maximum | 3 ms |
|---|---|
| l²t, max. | 3.3 A²·s |
| Built-in incoming fuse | T 6.3 A/250 V (not accessible) |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 10 A characteristic C |

| Output | |
|---|-----------------------------------|
| Output | Controlled, isolated DC voltage |
| Rated voltage Vout DC | 24 V |
| Total tolerance, static ± | 1 % |
| Static mains compensation, approx. | 0.1 % |
| Static load balancing, approx. | 0.5 % |
| Residual ripple peak-peak, max. | 150 mV |
| Residual ripple peak-peak, typ. | 50 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 240 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 200 mV |
| Adjustment range | 22 29 V |
| Product function Output voltage adjustable | Yes |
| Output voltage setting | via potentiometer |
| Status display | Green LED for 24 V OK |
| On/off behavior | No overshoot of Vout (soft start) |
| Startup delay, max. | 2 s |
| Voltage rise, typ. | 40 ms |
| Rated current value lout rated | 10 A |
| Current range | 0 10 A |
| Active power supplied typical | 240 W |
| Short-term overload current | |
| on short-circuiting during the start-up typical | 35 A |
| at short-circuit during operation typical | 35 A |
| Duration of overloading capability for excess current | |
| on short-circuiting during the start-up | 700 ms |
| at short-circuit during operation | 700 ms |
| Parallel switching for enhanced performance | Yes |
| Numbers of parallel switchable units for enhanced | 2 |
| performance | |
| Efficiency | |
| Efficiency at Vout rated, lout rated, approx. | 89 % |
| Power loss at Vout rated, lout rated, approx. | 30 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ±15 %), | 0.3 % |
| max. | |
| Dynamic load smoothing (lout: 50/100/50 %), Uout ± | 0.6 % |

typ.

| Load step setting time 50 to 100%, typ. | 0.1 ms |
|--|--|
| Load step setting time 100 to 50%, typ. | 0.2 ms |
| Load step setting time 100 to 50%, typ. | 0.2 1113 |
| Protection and monitoring | |
| Output overvoltage protection | Additional control loop, shutdown at approx. 33 V, automatic |
| | restart |
| Current limitation | 11 13 A |
| Property of the output Short-circuit proof | Yes |
| Short-circuit protection | Electronic shutdown, automatic restart |
| Enduring short circuit current RMS value | |
| • maximum | 10 A |
| Overload/short-circuit indicator | - |
| Safety | |
| Primary/secondary isolation | Yes |
| Galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN |
| | 50178 |
| Protection class | Class I |
| Leakage current | |
| • maximum | 3.5 mA |
| • typical | 0.27 mA |
| CE mark | Yes |
| UL/CSA approval | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| Explosion protection | - |
| Certificate of suitability IECEx | No |
| Certificate of suitability NEC Class 2 | No |
| FM approval | - |
| CB approval | No |
| Marine approval | - |
| Degree of protection (EN 60529) | IP20 |
| EMC | |
| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | - |
| Noise immunity | EN 61000-6-2 |
| Operating data | |
| Ambient temperature | |
| during operation | 0 60 °C |
| — Note | with natural convection |
| during transport | -40 +85 °C |
| during storage | -40 +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, no condensation |
| Mechanics | |
| nviechanics | |

| Connection technology | screw-type terminals |
|---|---|
| Connections | |
| Supply input | L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded |
| Output | L+, M: 3 screw terminals each for 0.5 2.5 mm ² |
| • Auxiliary | |
| Width of the enclosure | 160 mm |
| Height of the enclosure | 130 mm |
| Depth of the enclosure | 60 mm |
| Weight, approx. | 0.72 kg |
| Product property of the enclosure housing for side- by-side mounting | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15 |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |