

SIPLUS LOGO! POWER 24V 2.5 A  
 SIPLUS LOGO! Power 24V 2,5A for medial stress -40...+70°C start up at -25°C based-on 6EP3332-6SB00-0AY0 . stabilized power supply input: AC 100-240 V output: DC 24 V / 1,3 A

| Input   |  |
|---|--|
| Input   | 1-phase AC or DC   |
| Rated voltage value $V_{in}$ rated            | 100 ... 240 V  |
| Voltage range AC                              | 85 ... 264 V   |
| Input voltage                                 |  |
| • at DC                                       | 110 ... 300 V  |
| Wide-range input                              | Yes  |
| Mains buffering at $I_{out}$ rated, min.      | 40 ms; at $V_{in} = 187$ V   |
| Rated line frequency 1                        | 50 Hz  |
| Rated line frequency 2                        | 60 Hz  |
| Rated line range                              | 47 ... 63 Hz   |
| Input current                                 |  |
| • at rated input voltage 120 V                | 1.22 A   |
| • at rated input voltage 230 V                | 0.66 A   |
| Switch-on current limiting (+25 °C), max.     | 52 A   |
| $I^2t$ , max.                                 | 3 A <sup>2</sup> ·s  |
| Built-in incoming fuse                        | internal   |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |

| Output                                     |  |
|--|--|
| Output                                     | Controlled, isolated DC voltage        |
| Rated voltage $V_{out}$ DC                 | 24 V                                   |
| Total tolerance, static $\pm$              | 3 %                                    |
| Static mains compensation, approx.         | 0.1 %                                  |
| Static load balancing, approx.             | 0.1 %                                  |
| Residual ripple peak-peak, max.            | 200 mV                                 |
| Residual ripple peak-peak, typ.            | 30 mV                                  |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 300 mV                                 |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV                                  |
| Adjustment range                           | 22.2 ... 26.4 V                        |
| Product function Output voltage adjustable | Yes                                    |
| Output voltage setting                     | via potentiometer                      |
| Status display                             | Green LED for output voltage OK        |
| On/off behavior                            | No overshoot of $V_{out}$ (soft start) |
| Startup delay, max.                        | 0.5 s                                  |

|   |                               |
|---|-------------------------------|
| Voltage rise, typ.  | 100 ms                        |
| Rated current value I <sub>out</sub> rated                    | 2.5 A                         |
| Current range   | 0 ... 2.5 A                   |
| • Note  | +55 ... +70 °C: Derating 2%/K |
| Supplied active power typical                                 | 60 W                          |
| Parallel switching for enhanced performance                   | Yes                           |
| Numbers of parallel switchable units for enhanced performance | 2                             |

| Efficiency  |       |
|---|-------|
| Efficiency at V <sub>out</sub> rated, I <sub>out</sub> rated, approx. | 90 %  |
| Power loss at V <sub>out</sub> rated, I <sub>out</sub> rated, approx. | 7 W   |
| Power loss [W] during no-load operation maximum                       | 0.3 W |

| Closed-loop control   |       |
|---|-------|
| Dynamic mains compensation (V <sub>in</sub> rated ±15 %), max.                  | 0.2 % |
| Dynamic load smoothing (I <sub>out</sub> : 10/90/10 %), U <sub>out</sub> ± typ. | 2 %   |
| Load step setting time 10 to 90%, typ.  | 1 ms  |
| Load step setting time 90 to 10%, typ.  | 1 ms  |

| Protection and monitoring                           |   |
|---|---|
| Output overvoltage protection                       | Yes, according to EN 60950-1                                |
| Current limitation, typ.                            | 3.2 A   |
| Property of the output Short-circuit proof          | Yes   |
| Short-circuit protection                            | Constant current characteristic                             |
| Enduring short circuit current RMS value            |   |
| • maximum   | 3.2 A   |
| Overcurrent overload capability in normal operation | overload capability 150% I <sub>out</sub> rated typ. 200 ms |
| Overload/short-circuit indicator                    | -   |
| measuring point for output current                  | 50 mV = <sup>^</sup> 2.5 A                                  |

| Safety                          |  |
|---------------------------------|--|
| Primary/secondary isolation     | Yes  |
| Galvanic isolation              | Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178 |
| Protection class                | Class II (without protective conductor)  |
| CE mark                         | Yes  |
| Degree of protection (EN 60529) | IP20   |

| EMC                         |                  |
|-----------------------------|------------------|
| Emitted interference        | EN 55022 Class B |
| Supply harmonics limitation | not applicable   |
| Noise immunity              | EN 61000-6-2     |

| Operating data |  |
|----------------|--|
|----------------|--|

|   |   |
|---|---|
| Ambient temperature   |   |
| <ul style="list-style-type: none"> <li>• during operation</li> <li style="padding-left: 20px;">— Note</li> <li>• during transport</li> <li>• during storage</li> <li>• on cold restart minimum</li> </ul> | <p>-40 ... +70 °C<br/>with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>-25 °C</p>   |
| Relative humidity with condensation maximum   | 100 %; Relative humidity, incl. condensation/frost permitted (no commissioning under condensation conditions) |
| Resistance to biologically active substances conformity acc. to EN 60721-3-3  | Yes   |
| Resistance to chemically active substances conformity acc. to EN 60721-3-3  | Yes   |
| Resistance to mechanically active substances conformity acc. to EN 60721-3-3  | Yes   |

## Mechanics

|  |   |
|--|---|
| Connection technology  | screw-type terminals  |
| Connections  |   |
| <ul style="list-style-type: none"> <li>• Supply input</li> <li>• Output</li> <li>• Auxiliary</li> </ul>    | <p>L, N: 1 screw terminal each for 0.5 ... 2.5 mm<sup>2</sup> single-core/finely stranded</p> <p>+, -: 2 screw terminals each for 0.5 ... 2.5 mm<sup>2</sup></p> <p>-</p> |
| Width of the enclosure   | 54 mm   |
| Height of the enclosure  | 90 mm   |
| Depth of the enclosure   | 53 mm   |
| Required spacing   |   |
| <ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul> | <p>20 mm</p> <p>20 mm</p> <p>0 mm</p> <p>0 mm</p>   |
| Weight, approx.  | 0.2 kg  |
| Product feature of the enclosure housing for side-by-side mounting   | Yes   |
| Installation   | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions   |
| MTBF at 40 °C  | 2 864 520 h   |
| Other information  | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)   |