SIEMENS

## Data sheet 6EP1931-2FC21


SITOP DC UPS MODULE 40A WITHOUT INTERF.
SITOP DC USV MODULE 24 V/40 A UNINTERRUPTIBLE POWER SUPPLY WITHOUT INTERFACE INPUT: 24 V DC/43 A OUTPUT: 24 V DC/40 A

| Input | |
|---|---|
| Supply voltage for DC Rated value | 24 V |
| Voltage curve at input | DC |
| input voltage range | 22 ... 29 V DC |

| Mains buffering | |
|---|---|
| Type of energy storage | with batteries |
| Charging current | |
| • 1 | 1 A |
| • 2 | 2 A |

| Output | |
|---|---|
| Output voltage | |
| • in normal operation for DC Rated value | 24 V |
| • in buffering mode for DC Rated value | 24 V |
| Formula for output voltage | Vin - approx. 0.5 V |
| ON-delay time typical | 1 s |
| Voltage increase time of the output voltage typical | 360 ms |
| Output current Rated value | 40 A |
| Active power supplied typical | 960 W |

| Efficiency | |
|---|---|
| Efficiency in percent | |
| • at rated output current at rated output current typical | 97.2 % |
| • in case of accumulator operation typical | 96.9 % |
| Active power loss | |

| | |
|---|---|
| • at rated output current at rated output current typical | 28.6 W |
| • in case of accumulator operation typical | 33.6 W |
| **Protection and monitoring** | |
| Product function | |
| • reverse polarity protection against energy storage unit polarity reversal | Yes |
| • reverse polarity protection against input voltage polarity reversal | Yes |
| **Signaling** | |
| Display version | |
| • for normal operation | Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A |
| • in buffering mode | Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed |
| **Interface** | |
| Product component PC interface | No |
| Design of the interface | without |
| **Safety** | |
| Galvanic isolation between entrance and outlet | No |
| Operating resource protection class | Class III |
| Certificate of suitability | |
| • CE marking | Yes |
| • UL approval | Yes |
| • as approval for USA | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| • relating to ATEX | - |
| • C-Tick | No |
| Shipbuilding approval | - |
| Protection class IP | IP20 |
| **EMC** | |
| Standard | |
| • for emitted interference | EN 55022 Class B |

| | |
|---|---|
| • for interference immunity | EN 61000-6-2 |

| Operating data | |
|---|---|
| Ambient temperature | |
| • during operation | -25 ... +60 °C |
| • during transport | -40 ... +85 °C |
| • during storage | -40 ... +85 °C |

| Mechanics | |
|---|---|
| Type of electrical connection | screw-type terminals |
| • at input | 24 V DC: 2 screw terminals for 0.33 ... 10 mm²/22 ... 7 AWG |
| • at output | 24 V DC: 2 screw terminals for 0.33 ... 10 mm²/22 ... 7 AWG |
| • for battery module | 24 V DC: 2 screw terminals for 0.33 ... 10 mm²/22 ... 7 AWG |
| • for control circuit and status message | 10 screw terminals for 0.5 ... 2.5 mm²/20 ... 13 AWG |
| Width of the enclosure | 102 mm |
| Height of the enclosure | 125 mm |
| Depth of the enclosure | 125 mm |
| Required spacing | |
| • top | 50 mm |
| • bottom | 50 mm |
| • left | 0 mm |
| • right | 0 mm |
| Net weight | 1.1 kg |
| Product property of the enclosure housing for side-by-side mounting | Yes |
| Mounting type | Snaps onto DIN rail EN 60715 35x7.5/15 |
| Electrical accessories | Battery module |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |