## **SIEMENS**

Data sheet 6EP1334-2BA20

SITOP PSU100S/1AC/24VDC/10A
SITOP PSU100S 24 V/10 A Stabilized power supply input: 120/230 V
AC, output: DC 24 V/10 A



1-phase AC
Automatic range selection
120 V
230 V
85 132 V
170 264 V
No
2.3 × Vin rated, 1.3 ms
at Vin = 93/187 V
20 ms; at Vin = 93/187 V
50 Hz
60 Hz
47 63 Hz
4.49 A
1.91 A



Switch-on current limiting (+25 °C), max.	60 A
I²t, max.	5.6 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
	С

Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	1 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	160 mV
Adjustment range	22.8 28 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
On/off behavior	Overshoot of Vout < 3 %
Startup delay, max.	0.3 s
Voltage rise, typ.	20 ms
Rated current value lout rated	10 A
Current range	0 12 A
• Note	12 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	288 W
short-term overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	32 A
<ul> <li>at short-circuit during operation typical</li> </ul>	32 A
duration of overloading capability for excess current	
<ul> <li>on short-circuiting during the start-up</li> </ul>	1 000 ms
at short-circuit during operation	1 000 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2

Efficiency	
Efficiency at Vout rated, lout rated, approx.	90 %
Power loss at Vout rated, lout rated, approx.	25 W

Power loss at Vout rated, lout rated, approx.	25 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	0.3 %
max.	



Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %
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	protection against overvoltage in case of internal fault Vout < 33 V
Current limitation	12 14.6 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	14.6 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
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	0.8 mA
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259, cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus Class I Div. 2 (ANSI/ISA-12.12.01-2007, CSA C22.2 No. 213-M1987) Group ABCD, T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
Marine approval	BV, DNV GL

EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

## environmental conditions ambient temperature • during operation — Note with natural convection

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<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul><li>during storage</li></ul>	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation

Connection technology	screw-type terminals
	Solew-type terrilliais
Connections	
Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-
	core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>
<ul><li>Auxiliary</li></ul>	Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>
• signaling contact	2 screw terminals for 0.5 2.5 mm <sup>2</sup>
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
● right	0 mm
Weight, approx.	0.8 kg
product feature of the enclosure housing for side-by-	Yes
side mounting	
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise
	3RT1900-1SB20
MTBF at 40 °C	1 614 510 h
other information	Specifications at rated input voltage and ambient temperature +
	°C (unless otherwise specified)

