SIEMENS

Product data sheet 6EP1334-2BA20



SITOP PSU100S 24 V/10 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/10 A DC

Technical specifications		
Product	SITOP PSU100S	
Power supply, type	24 V/10 A	
Input		
Input	1-phase AC	
Supply voltage / 1 / at AC / nominal value	120 V	
Supply voltage / 2 / at AC / nominal value	230 V	
Voltage range		
• Note	Automatic range selection	
Input voltage / 1 / at AC	85 132 V	
Input voltage / 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	
Mains buffering	at Vin = 93/187 V	
Rated line frequency	50 / 60 Hz	
Rated line range	47 63 Hz	
Input current / at nominal level of the input voltage 120 V	4.49 A	
Input current / at nominal level of the input voltage 230 V	1.91 A	
Switch-on current limiting (+25 °C), max.	60 A	
l²t, 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 C
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 feature / 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
delivered active power / typ.	288 W
short-term overload current / at short-circuit during run-up / typical	32 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	1000 ms
short-term overload current / at short-circuit during operation / typical	32 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	1000 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
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
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
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current / Effective level / typical	14.6 A
• Note	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	0.8 mA
CE mark	Yes
UL/CSA approval	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, UL 1604)
Explosion protection	ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4
FM approval	-
CB approval	Yes
Marine approval	GL, BV
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature / in operation	-10 +70 °C
• Note	with natural convection
Ambient temperature / on transport	-40 +85 °C
Ambient temperature / in storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	
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
Connections / Output	+, -: 2 screw terminals each for 0.5 2.5 mm²
Connections / Auxiliary	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²

Width / of the housing	70 mm
Height / of the housing	125 mm
Depth / of the housing	120 mm
Installation width	70 mm
Mounting height	225 mm
Weight, approx.	0.8 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Mounting type / wall mounting	No
Type of mounting / standard rail mounting	Yes
Mounting type / S7 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung: