## **SIEMENS**

Data sheet 6EP1337-3BA00

SITOP PSU100M 24 V/40 A SITOP PSU100M 40 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/40 A



Input	
Input	1-phase AC
Supply voltage	
<ul> <li>1 with AC Rated value</li> </ul>	120 V
• 2 with AC Rated value	230 V
• Note	Set by means of wire jumper on the device; starting from Vin > 95/190 V
Input voltage	
• 1 with AC	85 132 V
• 2 with AC	176 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms; at Vin = 230 V
Rated line frequency	50 60 Hz
Rated line range	47 63 Hz
Input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	15 A
<ul><li>at rated input voltage 230 V</li></ul>	8 A
Switch-on current limiting (+25 °C), max.	125 A
l²t, max.	26 A²-s
Built-in incoming fuse	Yes
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker at 1-phase operation: 20 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V)

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.	0.1 %
Residual ripple peak-peak, max.	100 mV
Residual ripple peak-peak, typ.	60 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	120 mV
Adjustment range	24 28.8 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	via signaling module (6EP1961-3BA10)
On/off behavior	Overshoot of Vout approx. 3 %
Startup delay, max.	0.1 s
Voltage rise, typ.	50 ms
Rated current value lout rated	40 A
Current range	0 40 A
Note	+60 +70 °C: Derating 2.5%/K
Active power supplied typical	960 W
Short-term overload current	
at short-circuit during operation typical	120 A
Duration of overloading capability for excess current	
at short-circuit during operation	25 ms
Constant overload current	
on short-circuiting during the start-up typical	46 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	00 0/
Efficiency at Vout rated, lout rated, approx.	88 %
Power loss at Vout rated, lout rated, approx.	131 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	1 %
max.	
Dynamic load smoothing (lout: 50/100/50 %), Uout ±	2 %
typ.	
Load step setting time 50 to 100%, typ.	2 ms
Load step setting time 100 to 50%, typ.	2 ms
Setting time maximum	5 ms

Output overvoltage protection	< 35 V
Current limitation, typ.	46 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 46 A or latching shutdown
Enduring short circuit current RMS value	
• typical	46 A
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
afety	
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	0.4 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	ATEX (EX) II 3G Ex nA IIC T3 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
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
MC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	-
Noise immunity	EN 61000-6-2
perating data	
Ambient temperature	
<ul><li>during operation</li></ul>	0 70 °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	
Connection technology	screw-type terminals
Connections	

Supply input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.5 10 mm²
Auxiliary	
Width of the enclosure	240 mm
Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Weight, approx.	2.9 kg
Product property of the enclosure housing for side- by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
Electrical accessories	Buffer module, signaling module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)