## **SIEMENS**

Data sheet 6EP1334-3BA10



SITOP PSU200M/1-2AC/24VDC/10A

SITOP PSU200M 10 A stabilized power supply input: 120/230-500 V AC output: 24 V DC/ 10 A \*Ex approval no longer available\*

Input	
type of the power supply network	1-phase and 2-phase AC
supply voltage at AC	
initial value	Set by means of selector switch on the device
supply voltage	
• 1 at AC	120 230 V
• 2 at AC	230 500 V
input voltage	
• 1 at AC	85 264 V
• 2 at AC	176 550 V
design of input wide range input	Yes
overvoltage overload capability	1300 Vpeak, 1.3 ms
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	25 ms
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V
line frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	4.4 A
<ul> <li>at rated input voltage 230 V</li> </ul>	2.4 A
<ul> <li>at rated input voltage 500 V</li> </ul>	1.1 A
current limitation of inrush current at 25 °C maximum	35 A
I2t value maximum	4 A <sup>2</sup> ·s
fuse protection type	T 6.3 A (not accessible)
• in the feeder	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.1 %
residual ripple	

maximum	50 mV
voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1s
voltage increase time of the output voltage	10
• typical	50 ms
output current	30 113
• rated value	10 A
• rated range	0 10 A; +60 +70 °C: Derating 2%/K (at 120 V, 230 V) or 3.5%/K (at 400 V)
	240 W
supplied active power typical short-term overload current	240 VV
	20. A
at short-circuit during operation typical  duration of everlanding capability for every current.	30 A
duration of overloading capability for excess current	25 mg
at short-circuit during operation	25 ms
constant overload current	40.4
on short-circuiting during the start-up typical	12 A
product feature	V
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	91 %
· ·	91 /0
power loss [W]	24 W
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	Z4 VV
during no-load operation maximum	6 W
**	6 W
during no-load operation maximum	6 W
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid	
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of	0.1 %
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical	0.1 %
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	0.1 % 3 %
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  load step 50 to 100% typical	0.1 % 3 % 2 ms
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  load step 50 to 100% typical  load step 100 to 50% typical	0.1 % 3 % 2 ms
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical  load step 100 to 50% typical  setting time     maximum	0.1 % 3 % 2 ms 2 ms
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical     load step 100 to 50% typical  setting time     maximum  Protection and monitoring	0.1 % 3 % 2 ms 2 ms 5 ms
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical     load step 100 to 50% typical  setting time     maximum  Protection and monitoring  design of the overvoltage protection	0.1 % 3 % 2 ms 2 ms 5 ms
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical     load step 100 to 50% typical  setting time     maximum  Protection and monitoring  design of the overvoltage protection     typical	0.1 %  3 %  2 ms 2 ms 5 ms  < 35 V 12 A
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical     load step 100 to 50% typical  setting time     maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof	0.1 %  2 ms 2 ms 2 ms  5 ms  < 35 V 12 A Yes
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical     load step 100 to 50% typical  setting time     maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof design of short-circuit protection	0.1 %  3 %  2 ms 2 ms 5 ms  < 35 V 12 A
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical     load step 100 to 50% typical  setting time     maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value	0.1 %  2 ms 2 ms 5 ms  < 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     load step 50 to 100% typical     load step 100 to 50% typical  setting time     maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value     typical	0.1 %  2 ms 2 ms 5 ms  < 35 V 12 A  Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A
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during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time      load step 50 to 100% typical      eload step 100 to 50% typical  setting time      maximum  Protection and monitoring  design of the overvoltage protection      typical  property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value      typical display version for overload and short circuit  Safety	0.1 %  2 ms 2 ms 5 ms  4 35 V 12 A  Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A  LED yellow for "overload", LED red for "latching shutdown"
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	0.1 %  2 ms 2 ms 5 ms <a href="mailto:square;">2 ms</a> 5 ms <a href="mailto:square;">4 35 V</a> 12 A  Yes  Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A  LED yellow for "overload", LED red for "latching shutdown"
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	0.1 %  2 ms 2 ms 5 ms <a href="mailto:square;">35 V</a> 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	0.1 %  2 ms 2 ms 5 ms  4 35 V 12 A Yes  Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A  LED yellow for "overload", LED red for "latching shutdown"  Yes
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during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	0.1 %  2 ms 2 ms 5 ms  < 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	0.1 %  2 ms 2 ms 5 ms  4 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.32 mA
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	0.1 %  2 ms 2 ms 5 ms  < 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time      load step 50 to 100% typical      load step 100 to 50% typical  setting time      maximum  Protection and monitoring  design of the overvoltage protection      typical  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value      typical  display version for overload and short circuit  Safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  maximum  typical  protection class IP  Approvals	0.1 %  2 ms 2 ms 5 ms  4 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.32 mA
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time      load step 50 to 100% typical      load step 100 to 50% typical  setting time      maximum  Protection and monitoring  design of the overvoltage protection      typical  property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value      typical display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation operating resource protection class leakage current      maximum     typical protection class IP  Approvals certificate of suitability	0.1 %  2 ms 2 ms 5 ms  4 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.32 mA IP20
during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time      load step 50 to 100% typical      load step 100 to 50% typical  setting time      maximum  Protection and monitoring  design of the overvoltage protection      typical  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value      typical  display version for overload and short circuit  Safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  maximum  typical  protection class IP  Approvals	0.1 %  2 ms 2 ms 5 ms  4 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown  12 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.32 mA

	(CSA C22.2 No. 60950-1, UL 60950-1)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
NEC Class 2	No
<ul> <li>EAC approval</li> </ul>	Yes
Regulatory Compliance Mark (RCM)	Yes
type of certification	
CB-certificate	Yes
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
<ul><li>cCSAus, Class 1, Division 2</li></ul>	No
FM registration	No
certificate of suitability shipbuilding approval	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
Lloyds Register of Shipping (LRS)	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-25 +70 °C; With natural convection; startup tested starting from -40 °C
	nominal voltage
during transport	nominal voltage -40 +85 °C
during transport     during storage	•
	-40 +85 °C
during storage	-40 +85 °C -40 +85 °C
during storage     environmental category according to IEC 60721	-40 +85 °C -40 +85 °C
during storage     environmental category according to IEC 60721  Mechanics	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         at input         at output	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm²
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts  width of the enclosure  height of the enclosure	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts  width of the enclosure  height of the enclosure  depth of the enclosure	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm
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during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts  width of the enclosure  height of the enclosure  depth of the enclosure  required spacing	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing         • top	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts  width of the enclosure  height of the enclosure  depth of the enclosure  required spacing         • top         • bottom         • left         • right	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm  50 mm 50 mm 0 mm 0 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing         • top         • bottom         • left	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm  50 mm 0 mm 0 mm 0 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts  width of the enclosure  height of the enclosure  depth of the enclosure  required spacing         • top         • bottom         • left         • right	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm  50 mm 50 mm 0 mm 0 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts  width of the enclosure  height of the enclosure  depth of the enclosure  required spacing         • top         • bottom         • left         • right  net weight	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm  50 mm 0 mm 0 mm 0 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         at input             eat output             for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing             etop             ebottom             eleft             eright     net weight     product feature of the enclosure housing can be lined up	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm  50 mm 50 mm 0 mm 0 mm 0 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing         • top         • bottom         • left         • right     net weight     product feature of the enclosure housing can be lined up     fastening method	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm  50 mm 50 mm 0 mm 0 mm 0 mm 0 skg Yes Snaps onto DIN rail EN 60715 35x7.5/15

