## **SIEMENS**

Data sheet 6EP1332-5BA10



## SITOP PSU100C/1ACDC/24VDC/4A

SITOP PSU100C 24 V/4 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/4 A \*Ex approval no longer available\*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
<ul> <li>minimum rated value</li> </ul>	100 V
<ul> <li>maximum rated value</li> </ul>	230 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 300 V
design of input wide range input	Yes
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 230 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 230 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 100 V</li> </ul>	2.25 A
at rated input voltage 230 V	1.15 A
current limitation of inrush current at 25 °C maximum	34 A
I2t value maximum	3 A <sup>2</sup> ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C
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 %
on slow fluctuation of ohm loading	0.2 %
residual ripple	
• maximum	200 mV
• typical	80 mV
voltage peak	
• maximum	300 mV

• typical	80 mV
adjustable output voltage	22.2 26.4 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for output voltage OK
behavior of the output voltage when switching on	Overshoot of Vout approx. 1 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
typical	400 ms
output current	400 III3
• rated value	4 A
• rated range	0 4 A; +55 +70 °C: Derating 3%/K; at +70 °C lout rated 2.2 A
	96 W
supplied active power typical	90 VV
product feature	Voc. Start up with single naminal load only
bridging of equipment  Appropriate the description of the property of the	Yes; Start-up with single nominal load only
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
at rated output voltage for rated value of the output	13 W
current typical	10 11
during no-load operation maximum	0.75 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
load step 10 to 90% typical	4 ms
<ul><li>load step 10 to 90% typical</li><li>load step 90 to 10% typical</li></ul>	4 ms
Protection and monitoring	TIIO
Trotection and monitoring	
decign of the everyoltess protection	Vos. according to EN 60050 1
design of the overvoltage protection	Yes, according to EN 60950-1
• typical	4.8 A
typical  property of the output short-circuit proof	4.8 A Yes
typical  property of the output short-circuit proof  design of short-circuit protection	4.8 A Yes Electronic shutdown, automatic restart
typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit	4.8 A Yes
typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety	4.8 A Yes Electronic shutdown, automatic restart -
typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety galvanic isolation between input and output	4.8 A Yes Electronic shutdown, automatic restart - Yes
• typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety galvanic isolation between input and output	4.8 A Yes Electronic shutdown, automatic restart - Yes
• typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation operating resource protection class	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current     maximum	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
• typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current     • maximum     • typical	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA
• typical     property of the output short-circuit proof     design of short-circuit protection     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	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA
• typical     property of the output short-circuit proof     design of short-circuit protection     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	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA
• typical     property of the output short-circuit proof     design of short-circuit protection     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	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA IP20  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval	4.8 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA IP20  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval      • CSA approval	4.8 A Yes Electronic shutdown, automatic restart
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval	Yes Electronic shutdown, automatic restart  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA IP20  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval      • CSA approval	4.8 A Yes Electronic shutdown, automatic restart
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval      • CSA approval      • cCSAus, Class 1, Division 2	4.8 A Yes Electronic shutdown, automatic restart -  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA IP20  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) No
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval      • CSA approval      • CCSAus, Class 1, Division 2     • ATEX	4.8 A Yes Electronic shutdown, automatic restart -  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA IP20  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) No
• typical property of the output short-circuit proof design of short-circuit protection 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  • CE marking • UL approval  • CSA approval  • cCSAus, Class 1, Division 2  • ATEX certificate of suitability	Yes Electronic shutdown, automatic restart
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval      • CSA approval      • cCSAus, Class 1, Division 2     • ATEX  certificate of suitability     • IECEx	4.8 A Yes Electronic shutdown, automatic restart
• typical property of the output short-circuit proof design of short-circuit protection 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  • CE marking  • UL approval  • CSA approval  • cCSAus, Class 1, Division 2  • ATEX  certificate of suitability  • IECEx  • NEC Class 2	4.8 A Yes Electronic shutdown, automatic restart
• typical property of the output short-circuit proof design of short-circuit protection 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 • CE marking • UL approval  • CSA approval	4.8 A Yes Electronic shutdown, automatic restart
• typical     property of the output short-circuit proof     design of short-circuit protection     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         • CE marking         • UL approval          • CSA approval          • CSA approval          • CESAus, Class 1, Division 2         • ATEX  certificate of suitability         • IECEx         • NEC Class 2         • ULhazloc approval         • FM registration	4.8 A Yes Electronic shutdown, automatic restart
• typical     property of the output short-circuit proof     design of short-circuit protection     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     • CE marking     • UL approval      • CSA approval      • CSAus, Class 1, Division 2     • ATEX  certificate of suitability     • IECEx     • NEC Class 2     • ULhazloc approval     • FM registration type of certification CB-certificate	4.8 A Yes Electronic shutdown, automatic restart

certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
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
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-20 +70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
Gpo or organisation for the organisation	
• at input	L, N, PE: Removable screw terminal, each for 1 x 0.5 2.5 mm <sup>2</sup>
**	L, N, PE: Removable screw terminal, each for 1 x 0.5 2.5 mm <sup>2</sup> +: 1 screw terminal for 0.5 2.5 mm <sup>2</sup> ; -: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>
• at input	
<ul><li>at input</li><li>at output</li></ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm²
<ul><li>at input</li><li>at output</li><li>for auxiliary contacts</li></ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² -
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> width of the enclosure	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm 100 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm 100 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm 100 mm 50 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm 100 mm 50 mm 0 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm 100 mm 50 mm 0 mm 0 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> <li>net weight</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm 100 mm 50 mm 0 mm 0 mm 0 mm 0.32 kg
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> <li>net weight</li> <li>product feature of the enclosure housing can be lined up</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm² - 52.5 mm 80 mm 100 mm 50 mm 0 mm 0 mm 0 mm 0.32 kg Yes
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	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm²

