## 6EP3320-6SB00-0AY0 **Data sheet**



LOGO!Power/1AC/12VDC/0.9A

LOGO! Power 12 V / 0.9 A stabilized power supply input: 100-240 V AC output: 12 V DC/ 0.9 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>	240 V
• initial value	85 V
<ul> <li>full-scale value</li> </ul>	264 V
input voltage	
• at DC	110 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the	40 ms
event of power failure minimum	
operating condition of the mains buffering	at Vin = 187 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>	0.3 A
<ul> <li>at rated input voltage 230 V</li> </ul>	0.2 A
current limitation of inrush current at 25 °C maximum	20 A
I2t value maximum	0.8 A <sup>2</sup> ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	12 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	
<ul><li>maximum</li></ul>	200 mV
<ul><li>typical</li></ul>	30 mV
voltage peak	
• maximum	300 mV
• typical	50 mV

product function output votage adjustable display version for normal operation behavior of the output votage when switching on response delay maximum votage increase time of the output votage * )-pixcal output current * 10.5 s * 10.0 ms		
behavior of the output voltage when switching on response olderly maximum voltage increase time of the output voltage   9)pical   100 ms	product function output voltage adjustable	
response delay maximum voltage increase time of the output voltage  • typical output current  • rated value • rated range supplied active power typical product feature • Indiging of equipment  Eliticiancy  • Indiging of equipment   78 %  3 W  Closed-loop control  • Lated output voltage for rated value of the output current typical • Indiginal precision of the output voltage with rapid fluctuation of the input voltage by +1-15% pipical relative control precision of the output voltage with rapid fluctuation of the input voltage by +1-15% pipical relative control precision of the output voltage at load step of resistive load 10/00/10 % typical • load step 10 to 90% typical • load step 90 to 10% typical • load step 90 to 10% typical • load step 90 to 10% typical • load step 10 to 90% t		
voltage increase time of the output voltage		,
Physical output current	response delay maximum	0.5 s
valid value     value     value     valid value     valid value     valid	voltage increase time of the output voltage	
• rated value     • rated range     supplied active power typical     product feature     • Indiggn of equipment     • Indiggn of the overload capability in ormal operation     • Indiggn of the overload capability in ormal operation     • Indiggn of the overload capability in ormal operation     • Indiggn of overload and short circuit     • Indiggn of ov	• typical	100 ms
- rated range     supplied active power typical     product feature     - bridging of equipment	output current	
supplied active power typical product feature  - bridging of equipment  Efficiency  efficiency in percent power loss [W] - at rated output voltage for rated value of the output current typical - during no-load operation maximum - 0.3 W  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +1-15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage by +1-15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage by +1-15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage with rapid fluctuation of the input voltage by +1-15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage by +1-15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage by the 15% typical relative control relation to 15% typical relative control relation to 15% typical response value current limitation typical response value response va	rated value	0.9 A
product feature   bidging of equipment   No	rated range	0 0.9 A; +55 +70 °C: Derating 2%/K
efficiency in percent power loss [W]  efficiency in percent power loss [W]  a rat rated output voltage for rated value of the output current typical design on-load operation maximum  0.3 W  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 at load step of resistive load 1090/10 % typical elative control precision of the output voltage at load step of resistive load 1090/10 % typical elative control precision of the output voltage at load step of resistive load 1090/10 % typical elating time load step 10 to 90% typical load typical	supplied active power typical	10.8 W
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efficiency in percent power loss [W]	<ul> <li>bridging of equipment</li> </ul>	No
power loss [M]	Efficiency	
power loss [M]	efficiency in percent	78 %
at rated output voltage for rated value of the output current typical  a during no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by 4+. 15% typical relative control precision of the output voltage at load step of resistive load 10/90/10 % typical relative control precision of the output voltage at load step of resistive load 10/90/10 % typical 1 ms  load step 10 to 90% typical 1 ms  load step 90 to 10% typical 1 ms  response value current limitation typical 1.3 A 2 ms according to EN 60950-1 ms according to EN 60950	•	
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setting time load step 10 to 90% typical load step 90 to 10% to 10% typical loa		
• load step 10 to 90% typical 1 ms  • load step 90 to 10% typical 1 ms   Protection and monitoring   design of the overvoltage protection  response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value  • maximum  overcurrent overload capability in normal operation  display version for overload and short circuit  overcurrent overload capability when switching on   Safety   galvanic isolation between input and output  galvanic isolation between input and output  galvanic solation  operating resource protection class  protection class IP   Approvals   Certificate of suitability  • UL approval  • CSA approval  •		
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protection class IP  Approvals  certificate of suitability	<u> </u>	
Approvals  certificate of suitability		Class II (without protective conductor)
certificate of suitability  CE marking  UL approval  CSA approval  CATEX  CSA ATEX  NO  NO  CATE  NO  NO  CATE  NO  CATE  NO  CATE  CA	protection class IP	IP20
CE marking UL approval  UL approval  Ves; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)  CCSA approval  CCSAus, Class 1, Division 2  ATEX  Certificate of suitability  IECEX  No  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate certificate of suitability  EAC approval  EAC approval  CETIFICATE OR NO  CESA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 508, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)  No  No  No  FM registration  No  SPM registration  No  No  SPM registration  No  SPM registration  No  No  SPM registration  No  SPM registration  No  SPM registration  No  No  SPM registration  No  No  SPM registration  No  No  SPM regist	Approvals	
CE marking UL approval  UL approval  Ves; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)  CCSA approval  CCSAus, Class 1, Division 2  ATEX  Certificate of suitability  IECEX  No  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate certificate of suitability  EAC approval  EAC approval  CETIFICATE OR NO  CESA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 508, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)  No  No  No  FM registration  No  SPM registration  No  No  SPM registration  No  SPM registration  No  No  SPM registration  No  SPM registration  No  SPM registration  No  No  SPM registration  No  No  SPM registration  No  No  SPM regist	certificate of suitability	
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cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)  • CSA approval  • CSA approval  • CCSAus, Class 1, Division 2  • ATEX  certificate of suitability  • IECEx  • NEC Class 2  • ULhazloc approval  • FM registration  type of certificate of suitability  • EAC approval  certificate of suitability shipbuilding approval  shipbuilding approval  Marine classification association	<u> </u>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
<ul> <li>CSA approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)</li> <li>CCSAus, Class 1, Division 2</li> <li>ATEX</li> <li>ATEX</li> <li>No</li> <li>IECEX</li> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> <li>type of certificate of suitability</li> <li>EAC approval</li> <li>EAC approval</li> <li>Yes</li> <li>certificate of suitability</li> <li>EAC approval</li> <li>Certificate of suitability</li> <li>ABS, BV, DNV GL, LRS</li> </ul> Marine classification association	• •	cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273,
cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)  • cCSAus, Class 1, Division 2  • ATEX  No  certificate of suitability  • IECEx  • NEC Class 2  • ULhazloc approval  • FM registration  type of certification CB-certificate  certificate of suitability  • EAC approval  certificate of suitability shipbuilding approval  shipbuilding approval  Marine classification association		
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certificate of suitability  IECEX  No  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate  certificate of suitability  EAC approval  certificate of suitability shipbuilding approval  shipbuilding approval  Marine classification association		
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<ul> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> <li>type of certification CB-certificate</li> <li>certificate of suitability</li> <li>EAC approval</li> <li>certificate of suitability shipbuilding approval</li> <li>shipbuilding approval</li> <li>Marine classification association</li> </ul> Yes ABS, BV, DNV GL, LRS		No
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<ul> <li>FM registration</li> <li>type of certification CB-certificate</li> <li>certificate of suitability</li> <li>EAC approval</li> <li>certificate of suitability shipbuilding approval</li> <li>shipbuilding approval</li> <li>Marine classification association</li> </ul> No Yes Yes ABS, BV, DNV GL, LRS		
type of certification CB-certificate  certificate of suitability  • EAC approval  certificate of suitability shipbuilding approval  shipbuilding approval  Marine classification association  Yes  Yes  Yes  ABS, BV, DNV GL, LRS		
ecrtificate of suitability  ■ EAC approval  certificate of suitability shipbuilding approval  shipbuilding approval  Marine classification association  Yes  ABS, BV, DNV GL, LRS	3	
● EAC approval  certificate of suitability shipbuilding approval shipbuilding approval  Marine classification association  Yes  Yes  ABS, BV, DNV GL, LRS	••	Yes
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shipbuilding approval ABS, BV, DNV GL, LRS Marine classification association	• •	
Marine classification association		
	. 5	ABS, BV, DNV GL, LRS
American Bureau of Shipping Europe Ltd. (ABS)     Yes		
	American Bureau of Shipping Europe Ltd. (ABS)	Yes

<ul> <li>French marine classification society (BV)</li> </ul>	Yes
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
for emitted interference	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	not applicable
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +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
• at input	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
• at output	+, -: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>
for auxiliary contacts	-
width of the enclosure	18 mm
height of the enclosure	90 mm
depth of the enclosure	53 mm
required spacing	
• top	20 mm
• bottom	20 mm
● left	0 mm
• right	0 mm
net weight	0.07 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	3 793 080 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

