## SIEMENS

## Data sheet

## 6EP3333-6SB00-0AY0



## LOGO!Power/1AC/24VDC/4A

LOGO!POWER 24 V / 4 A Stabilized power supply input: 100-240 V AC output: DC 24 V / 4 A

Input	
Input	1-phase AC or DC
Rated voltage value Vin rated	100 240 V
Voltage range AC	85 264 V
input voltage	
• at DC	110 300 V
Wide-range input	Yes
Overvoltage resistance	300 V AC for 1 s
Mains buffering	at Vin = 187 V
Mains buffering at lout rated, min.	40 ms; at Vin = 187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	1.95 A
<ul> <li>at rated input voltage 230 V</li> </ul>	0.97 A
Switch-on current limiting (+25 °C), max.	31 A
l²t, max.	2.5 A <sup>2</sup> ·s
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
<ul> <li>output voltage at output 1 at DC rated value</li> </ul>	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	200 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	50 mV
Adjustment range	22.2 26.4 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for output voltage OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.5 s

Voltage rise, typ.	100 ms
Rated current value lout rated	4 A
Current range	04A
Note	+55 +70 °C: Derating 2%/K
supplied active power typical	96 W
	Yes
Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced	2
performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	89 %
Power loss at Vout rated, lout rated, approx.	12 W
power loss [W] during no-load operation maximum	0.3 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	2 %
	1 ms
Load step setting time 10 to 90%, typ.	1 ms
	1115
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	5 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	5 A
overcurrent overload capability in normal operation	overload capability 150% lout rated typ. 200 ms
Overload/short-circuit indicator	-
measuring point for output current	50 mV =^ 4 A
overcurrent overload capability when switching on	150% lout rated typ. 200 ms
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class II (without protective conductor)
galvanic isolation	
galvanic isolation Protection class	Class II (without protective conductor)
galvanic isolation Protection class Degree of protection (EN 60529)	Class II (without protective conductor)
galvanic isolation Protection class Degree of protection (EN 60529) Approvals	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-
galvanic isolation Protection class Degree of protection (EN 60529) Approvals CE mark	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273
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galvanic isolation         Protection class         Degree of protection (EN 60529)         Approvals         CE mark         UL/cUL (CSA) approval         Explosion protection         certificate of suitability NEC Class 2         FM approval         CB approval         certificate of suitability EAC approval         Marine approval         EMC         Emitted interference         Supply harmonics limitation	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273 ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA- 12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B EN 61000-3-2
galvanic isolation         Protection class         Degree of protection (EN 60529)         Approvals         CE mark         UL/cUL (CSA) approval         Explosion protection         certificate of suitability NEC Class 2         FM approval         CB approval         certificate of suitability EAC approval         Marine approval         Emitted interference         Supply harmonics limitation         Noise immunity	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273 ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA- 12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B EN 61000-3-2
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galvanic isolation         Protection class         Degree of protection (EN 60529)         Approvals         CE mark         UL/cUL (CSA) approval         Explosion protection         certificate of suitability NEC Class 2         FM approval         CB approval         certificate of suitability EAC approval         Marine approval         EMC         Emitted interference         Supply harmonics limitation         Noise immunity         environmental conditions         ambient temperature         • during operation         — Note	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273 ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA- 12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B EN 61000-3-2 EN 61000-6-2 -25 +70 °C
galvanic isolation         Protection class         Degree of protection (EN 60529)         Approvals         CE mark         UL/cUL (CSA) approval         Explosion protection         certificate of suitability NEC Class 2         FM approval         CB approval         certificate of suitability EAC approval         certificate of suitability EAC approval         Marine approval         EMC         Emitted interference         Supply harmonics limitation         Noise immunity         environmental conditions         ambient temperature         • during operation         — Note         • during transport	Class II (without protective conductor) IP20 Yes CULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273 ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA- 12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B EN 61000-3-2 EN 61000-6-2 -25 +70 °C with natural convection
galvanic isolation         Protection class         Degree of protection (EN 60529)         Approvals         CE mark         UL/cUL (CSA) approval         Explosion protection         certificate of suitability NEC Class 2         FM approval         CB approval         certificate of suitability EAC approval         certificate of suitability EAC approval         Marine approval         EMC         Emitted interference         Supply harmonics limitation         Noise immunity         environmental conditions         ambient temperature         • during operation         — Note         • during transport         • during storage	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273 ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA- 12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B EN 61000-3-2 EN 61000-6-2 -25 +70 °C with natural convection -40 +85 °C -40 +85 °C
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galvanic isolation         Protection class         Degree of protection (EN 60529)         Approvals         CE mark         UL/cUL (CSA) approval         Explosion protection         certificate of suitability NEC Class 2         FM approval         CB approval         CB approval         certificate of suitability EAC approval         Marine approval         EMC         Emitted interference         Supply harmonics limitation         Noise immunity         environmental conditions         ambient temperature         • during operation         — Note         • during storage         Humidity class according to EN 60721         Mechanics	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273 ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA- 12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B EN 61000-3-2 EN 61000-6-2 -25 +70 °C with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
galvanic isolation         Protection class         Degree of protection (EN 60529)         Approvals         CE mark         UL/cUL (CSA) approval         Explosion protection         certificate of suitability NEC Class 2         FM approval         CB approval         certificate of suitability EAC approval         certificate of suitability EAC approval         Marine approval         EMC         Emitted interference         Supply harmonics limitation         Noise immunity         environmental conditions         ambient temperature         • during operation         — Note         • during storage         Humidity class according to EN 60721	Class II (without protective conductor) IP20 Yes cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- recognized (UL 60950, CSA C22.2 No. 60950), File E151273 ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA- 12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 No Class I, Div. 2, Group ABCD, T4 Yes Yes ABS, BV, DNV GL, LRS EN 55022 Class B EN 61000-3-2 EN 61000-6-2 -25 +70 °C with natural convection -40 +85 °C -40 +85 °C

Supply input	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
Output	+, -: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>
Auxiliary	-
width of the enclosure	72 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
Weight, approx.	0.29 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	2 391 480 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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