SIEMENS

Data sheet 6EP1332-4BA00



SIMATIC PM1507/1AC/24VDC/3A

SIMATIC PM 1507 24 V/3 A Stabilized power supply for SIMATIC S7-1500 input: 120/230 V AC, output: 24 V DC/3 A

Input	
Input	1-phase AC
Note	Automatic range selection
supply voltage	
1 at AC rated value	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering	at Vin = 93/187 V
Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	45 65 Hz
input current	
 at rated input voltage 120 V 	1.4 A
 at rated input voltage 230 V 	0.8 A
Switch-on current limiting (+25 °C), max.	23 A
duration of inrush current limiting at 25 °C	
• maximum	3 ms
I²t, max.	1.3 A ² ·s
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	1 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	150 mV
product function output voltage adjustable	No

Status display	LED green for 24 V OK; LED red for error; LED yellow for stand-by
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	1.5 s
Voltage rise, typ.	10 ms
Rated current value lout rated	3 A
Current range	0 3 A
supplied active power typical	72 W
short-term overload current	
on short-circuiting during the start-up typical	12 A
at short-circuit during operation typical	12 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	70 ms
at short-circuit during operation	70 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	87 %
Power loss at Vout rated, lout rated, approx.	11 W
Closed-loop control	
	0.1 %
Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	1 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	5 ms
Load step setting time 90 to 10%, typ.	_ 5 ms
setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	Additional control loop, limitation (closed loop control) at < 28.8 V
Current limitation	3.15 3.6 A
Current limitation, typ.	3.4 A
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2
Protection class	Class I
	Cidss I
leakage current	2 F mA
• maximum	3.5 mA
• typical Degree of protection (EN 60529)	0.4 mA
	IP20
Approvals	·
CE mark	Yes The Address of th
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
Explosion protection	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455
certificate of suitability NEC Class 2	No
FM approval	Class I, Div. 2, Group ABCD, T4
CB approval	Yes
certificate of suitability EAC approval	Yes
certificate of suitability LAC approval	ADC DV DNIV CI
Marine approval	ABS, BV, DNV GL
Marine approval	ADS, DV, DIVV GL
Marine approval EMC	
Marine approval EMC Emitted interference	EN 55022 Class B
Marine approval EMC	

ambient temperature • during operation — Note • during transport • during storage 40 +85 °C Humidity class according to EN 60721 Climate class 3K3, 5 95% no condensation Mechanics Connection technology Connection technology Connection technology • Screw-/spring clamp connection • Supply input • Output • Output • removable terminal at input • removable terminal at output • on m height of the enclosure 147 mm depth of the enclosure 40 mm • bottom • left • on m • left • on mm • left • right 0 mm • left • right 0 mm Weight, approx. product feature of the enclosure housing can be lined up Installation Can be mounted onto S7-1500 rail MTBF at 40 °C other information Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)		
- Note	ambient temperature	
 during transport during storage 40 +85 °C Humidity class according to EN 60721 Climate class 3K3, 5 95% no condensation Mechanics Connection technology Screw-/spring clamp connection Connections Supply input Output Product function removable terminal at input removable terminal at output yes width of the enclosure height of the enclosure 147 mm depth of the enclosure top bottom bottom left o mm left o mm wight, approx. product feature of the enclosure housing can be lined up Yes Installation Can be mounted onto S7-1500 rail MTBF at 40 °C other information Specifications at rated input voltage and ambient temperature +25 °C 	 during operation 	0 60 °C
 during storage -40 +85 °C Humidity class according to EN 60721 Climate class 3K3, 5 95% no condensation Mechanics Connection technology Screw-/spring clamp connection Connections Supply input Output L, N, PE: 1 screw terminal each for 0.5 2.5 mm² L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm² product function removable terminal at input removable terminal at output Yes width of the enclosure height of the enclosure 147 mm depth of the enclosure required spacing top bottom bottom left right 0 mm weight, approx. product feature of the enclosure housing can be lined up Installation MTBF at 40 °C other information Specifications at rated input voltage and ambient temperature +25 °C 	— Note	with natural convection
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Connection technology Connections Supply input Output L, N, PE: 1 screw terminal each for 0.5 2.5 mm² L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm² removable terminal at input removable terminal at output width of the enclosure height of the enclosure top otop otop otop otop otop otop otop	during storage	-40 +85 °C
Connection technology Connections Supply input Output Ut, M. PE: 1 screw terminal each for 0.5 2.5 mm² L, N, PE: 1 screw terminal each for 0.5 2.5 mm² L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm² Product function Premovable terminal at input Premovable terminal at output Yes Width of the enclosure Width of the enclosure Fequired spacing Product feature of the enclosure Fight O mm Weight, approx. Product feature of the enclosure housing can be lined up Installation MTBF at 40 °C Other information Can be mounted onto S7-1500 rail Specifications at rated input voltage and ambient temperature +25 °C	Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Connections Supply input Output L, N, PE: 1 screw terminal each for 0.5 2.5 mm² L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm² product function removable terminal at input removable terminal at output Yes width of the enclosure height of the enclosure top top top top top top top to	Mechanics	
Supply input Output Output Product function In removable terminal at input In removable terminal at output Width of the enclosure Applied spacing Interest to perform the enclosure to the enclosure housing can be lined up Installation Installation Interest to enclosure to the enclosure housing can be lined up Installation Interest to enclosure to the enclosure temperature	Connection technology	Screw-/spring clamp connection
Output L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm² product function	Connections	
product function	 Supply input 	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
removable terminal at input removable terminal at output width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • right • right • right • rom Weight, approx. product feature of the enclosure housing can be lined up Installation MTBF at 40 °C other information Specifications at rated input voltage and ambient temperature +25 °C	Output	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm ²
 ◆ removable terminal at output ✓ ves width of the enclosure height of the enclosure depth of the enclosure 129 mm required spacing ◆ top ◆ bottom ◆ left ◆ right ✓ o mm ♦ right Weight, approx. product feature of the enclosure housing can be lined up Installation MTBF at 40 °C o ther information Specifications at rated input voltage and ambient temperature +25 °C 	product function	
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height of the enclosure depth of the enclosure required spacing top bottom left right right Weight, approx. product feature of the enclosure housing can be lined up Installation MTBF at 40 °C other information 147 mm 40 mm 40 mm 40 mm 0 mm Vener information 40 mm 0 mm Can be mounted onto S7-1500 rail 1611 993 h Specifications at rated input voltage and ambient temperature +25 °C	 removable terminal at output 	Yes
depth of the enclosure required spacing • top • bottom • left • right Veight, approx. product feature of the enclosure housing can be lined up Installation MTBF at 40 °C other information 129 mm 40 mm 40 mm 0 mm 0 mm Vemme 0 mm Can be mounted onto S7-1500 rail 1611 993 h Specifications at rated input voltage and ambient temperature +25 °C	width of the enclosure	50 mm
required spacing • top • bottom • left • right Weight, approx. product feature of the enclosure housing can be lined up Installation MTBF at 40 °C other information 40 mm 40 mm 0 mm Vemme 0 mm Can be mounted onto S7-1500 rail 1 611 993 h Specifications at rated input voltage and ambient temperature +25 °C	height of the enclosure	147 mm
top bottom left o mm right o mm Weight, approx. product feature of the enclosure housing can be lined up Installation Can be mounted onto S7-1500 rail MTBF at 40 °C 1611 993 h other information Specifications at rated input voltage and ambient temperature +25 °C	depth of the enclosure	129 mm
 bottom left right mm weight, approx. product feature of the enclosure housing can be lined up Installation MTBF at 40 °C other information 40 mm 0 mm 0.45 kg Yes Can be mounted onto S7-1500 rail 1 611 993 h other information Specifications at rated input voltage and ambient temperature +25 °C 	required spacing	
● left	• top	40 mm
● right 0 mm Weight, approx. 0.45 kg product feature of the enclosure housing can be lined up Yes Installation Can be mounted onto S7-1500 rail MTBF at 40 °C 1 611 993 h other information Specifications at rated input voltage and ambient temperature +25 °C	• bottom	40 mm
Weight, approx. product feature of the enclosure housing can be lined up Installation Can be mounted onto S7-1500 rail MTBF at 40 °C 1 611 993 h Other information Specifications at rated input voltage and ambient temperature +25 °C	• left	0 mm
product feature of the enclosure housing can be lined up Installation Can be mounted onto S7-1500 rail MTBF at 40 °C 1 611 993 h other information Specifications at rated input voltage and ambient temperature +25 °C	• right	0 mm
Installation Can be mounted onto S7-1500 rail MTBF at 40 °C 1 611 993 h other information Specifications at rated input voltage and ambient temperature +25 °C	Weight, approx.	0.45 kg
MTBF at 40 °C 1 611 993 h other information 1 611 993 h Specifications at rated input voltage and ambient temperature +25 °C	product feature of the enclosure housing can be lined up	Yes
other information Specifications at rated input voltage and ambient temperature +25 °C	Installation	Can be mounted onto S7-1500 rail
	MTBF at 40 °C	1 611 993 h
	other information	

