SIEMENS

Data sheet

6EP1333-4BA00



SIMATIC PM1507/1AC/24VDC/8A

SIMATIC PM 1507 24 V/8 A Regulated power supply for SIMATIC S7-1500 input: 120/230 V AC, output: 24 V DC/8 A

input			
type of the power supply network	1-phase AC		
supply voltage at AC	Automatic range selection		
supply voltage	120 V/230 V		
input voltage 1 at AC	85 132 V		
input voltage 2 at AC	170 264 V		
wide range input	No		
overvoltage overload capability	2.3 × Vin rated, 1.3 ms		
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 = 93/187 V		
line frequency	50/60 Hz		
line frequency	45 65 Hz		
input current			
 at rated input voltage 120 V 	3.7 A		
 at rated input voltage 230 V 	1.7 A		
current limitation of inrush current at 25 °C maximum	62 A		
duration of inrush current limiting at 25 °C			
• maximum	3 ms		
l2t value maximum	12 A ² ·s		
fuse protection type	T 6.3 A/250 V (not accessible)		
fuse protection type in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or 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		
output voltage adjustable	No		
relative overall tolerance of the voltage	1 %		
relative control precision of the output voltage			
 on slow fluctuation of input voltage 	0.1 %		
 on slow fluctuation of ohm loading 	0.1 %		
residual ripple			
• maximum	50 mV		
voltage peak			
• maximum	150 mV		
display version for normal operation	LED green for 24 V OK; LED red for error; LED yellow for stand-by		
behavior of the output voltage when switching on	No overshoot of Vout (soft start)		
response delay maximum	1.5 s		

voltage increase time of the output voltage • typical output current • rated value • rated range supplied active power typical	10 ms
output current rated value rated range 	10 ms
rated value rated range	10 115
rated range	
	8 A
supplied active power typical	0 8 A
	192 W
short-term overload current	
 on short-circuiting during the start-up typical 	35 A
at short-circuit during operation typical	35 A
duration of overloading capability for excess current	
• on short-circuiting during the start-up	70 ms
at short-circuit during operation	70 ms
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output	21 W
current typical	
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %
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 	5 ms
 load step 90 to 10% typical 	5 ms
• maximum	5 ms
protection and monitoring	
design of the overvoltage protection	Additional control loop, limitation (closed loop control) at < 28.8 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	8.4 9.6 A
• typical	9 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178 and EN 61131-2
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	1.3 mA
protection class IP	IP20
standard	
	EN 55022 Class B
 for emitted interference 	EN 61000-3-2
 for emitted interference for mains harmonics limitation 	
 for mains harmonics limitation 	EN 61000-6-2
 for mains harmonics limitation for interference immunity 	
 for mains harmonics limitation for interference immunity standards, specifications, approvals 	
for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability	
for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability • CE marking	EN 61000-6-2 Yes
for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval	EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability CE marking UL approval CSA approval	EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
 for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability CE marking UL approval CSA approval EAC approval 	EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes
 for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2 	EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
 for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2 type of certification	EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes No
 for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2 type of certification BIS 	EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes No
 for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2 type of certification	EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes No

Yes; IECEx Ex nA nC IIC T3 Gc
Yes; ATEX (EX) II 3G Ex nA nC IIC T3 Gc
Yes
No
Yes; Class I, Div. 2, Group ABCD, T4
Yes
Yes
Yes
Yes
No
0 60 °C; with natural convection
-40 +85 °C
-40 +85 °C
Climate class 3K3, 5 95% no condensation
Screw-/spring clamp connection
L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm ²
Yes
Yes
75 × 147 × 129 mm
75 mm × 205 mm
40 mm
40 mm
0 mm
0 mm
Can be mounted onto S7-1500 rail
No
Yes
No
Yes
0.74 kg
0.74 kg
https://mall.industry.siemens.com
https://siemens.com/industrial-communication
https://siemens.com/cax
https://support.industry.siemens.com
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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ssifications							
				Version	Classification		
			eClass	14	27-04-07-01		
			eClass	12	27-04-07-01		
			eClass	9.1	27-04-07-01		
			eClass	9	27-04-07-01		
			eClass	8	27-04-90-02		
			eClass	7.1	27-04-90-02		
			eClass	6	27-04-90-02		
			ETIM	9	EC002540		
			ETIM	8	EC002540		
			ETIM	7	EC002540		
			IDEA	4	4130		
			UNSPSC	15	39-12-10-04		
provals Certificates							
eneral Product App	roval						
СВ	CB	<u>Manufacturer Declara</u> tion	UK CA	(UL) UL	<u>Miscellaneous</u>		
General Product Ap- proval	For use in hazardous locations						
BIS CRS	BUREAU VERITAS	ATEX	IECEx	ΕM	<u>CCC-Ex</u>		
or use in hazard- ous locations	Marine / Shipping						
UL	BUREAU VERITAS						