



**THE DATASHEET OF  
6EP13334BA00**





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	
• initial value	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
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 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 = 93/187 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	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
I <sup>2</sup> t value maximum	12 A <sup>2</sup> ·s
fuse protection type	T 6.3 A/250 V (not accessible)
• 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
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	



<ul style="list-style-type: none"> <li>• maximum</li> </ul>	50 mV
voltage peak	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	150 mV
product function output voltage adjustable	No
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	
<ul style="list-style-type: none"> <li>• typical</li> </ul>	10 ms
output current	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	8 A
<ul style="list-style-type: none"> <li>• rated range</li> </ul>	0 ... 8 A
supplied active power typical	192 W
short-term overload current	
<ul style="list-style-type: none"> <li>• on short-circuiting during the start-up typical</li> </ul>	35 A
<ul style="list-style-type: none"> <li>• at short-circuit during operation typical</li> </ul>	35 A
duration of overloading capability for excess current	
<ul style="list-style-type: none"> <li>• on short-circuiting during the start-up</li> </ul>	70 ms
<ul style="list-style-type: none"> <li>• at short-circuit during operation</li> </ul>	70 ms
product feature	
<ul style="list-style-type: none"> <li>• bridging of equipment</li> </ul>	Yes
number of parallel-switched equipment resources for increasing the power	2
<b>Efficiency</b>	
efficiency in percent	90 %
power loss [W]	
<ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> </ul>	21 W
<b>Closed-loop control</b>	
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	
<ul style="list-style-type: none"> <li>• load step 10 to 90% typical</li> </ul>	5 ms
<ul style="list-style-type: none"> <li>• load step 90 to 10% typical</li> </ul>	5 ms
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	5 ms
<b>Protection and monitoring</b>	
design of the overvoltage protection	Additional control loop, limitation (closed loop control) at < 28.8 V
response value current limitation	8.4 ... 9.6 A
response value current limitation typical	9 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
display version for overload and short circuit	-
<b>Safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2
operating resource protection class	Class I
leakage current	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	3.5 mA
<ul style="list-style-type: none"> <li>• typical</li> </ul>	1.3 mA
protection class IP	IP20
<b>Approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• UL approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
<ul style="list-style-type: none"> <li>• CSA approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
<ul style="list-style-type: none"> <li>• cCSAus, Class 1, Division 2</li> </ul>	No

<ul style="list-style-type: none"> <li>• ATEX</li> </ul>	Yes; ATEX (EX) II 3G Ex nA nC IIC T3 Gc
certificate of suitability	
<ul style="list-style-type: none"> <li>• relating to ATEX</li> </ul>	IECEX Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T3, File E330455
<ul style="list-style-type: none"> <li>• IECEX</li> </ul>	Yes; IECEX Ex nA nC IIC T3 Gc
<ul style="list-style-type: none"> <li>• NEC Class 2</li> </ul>	No
<ul style="list-style-type: none"> <li>• ULhazloc approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• FM registration</li> </ul>	Yes; Class I, Div. 2, Group ABCD, T4
type of certification CB-certificate	Yes
certificate of suitability	
<ul style="list-style-type: none"> <li>• EAC approval</li> </ul>	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, BV, DNV GL
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DNV GL</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	No
<b>EMC</b>	
standard	
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 55022 Class B
<ul style="list-style-type: none"> <li>• for mains harmonics limitation</li> </ul>	EN 61000-3-2
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2
<b>environmental conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	0 ... 60 °C; with natural convection
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>Mechanics</b>	
type of electrical connection	Screw-/spring clamp connection
<ul style="list-style-type: none"> <li>• at input</li> </ul>	L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• at output</li> </ul>	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm <sup>2</sup>
product function	
<ul style="list-style-type: none"> <li>• removable terminal at input</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• removable terminal at output</li> </ul>	Yes
width of the enclosure	75 mm
height of the enclosure	147 mm
depth of the enclosure	129 mm
required spacing	
<ul style="list-style-type: none"> <li>• top</li> </ul>	40 mm
<ul style="list-style-type: none"> <li>• bottom</li> </ul>	40 mm
<ul style="list-style-type: none"> <li>• left</li> </ul>	0 mm
<ul style="list-style-type: none"> <li>• right</li> </ul>	0 mm
net weight	0.74 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Can be mounted onto S7-1500 rail
MTBF at 40 °C	1 362 918 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



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