SIEMENS

Data sheet 6EP1332-4BA00

POWER SUPPLY S7-1500 PM1507 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
Supply voltage	
1 at AC Rated value	120 V
• 2 at AC Rated value	230 V
• Note	Automatic range selection
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 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	No

Efficiency	
Efficiency at Vout rated, lout rated, approx.	87 %
Power loss at Vout rated, lout rated, approx.	11 W

Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	0.1 %
max.	
Dynamic load smoothing (lout: 50/100/50 %), Uout ±	1 %
typ.	
Dynamic load smoothing (lout: 10/90/10 %), Uout ±	3 %
typ.	
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

Additional control loop, limitation (closed loop control) at < 28.8 V 3.15 3.6 A 3.4 A Yes Electronic shutdown, automatic restart -
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Electronic shutdown, automatic restart
-
Yes
Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 and EN 61131-2
Class I
3.5 mA
0.4 mA
Yes
cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
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
Class I, Div. 2, Group ABCD, T4
Yes
ABS, BV, DNV GL
IP20
EN 55022 Class B
EN 61000-3-2
EN 61000-6-2
000%0
0 60 °C
with natural convection
-40 +85 °C
-40 +85 °C
Climate class 3K3, 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

 removable terminal at input 	Yes
 removable terminal at output 	Yes
Width of the enclosure	50 mm
Height of the enclosure	147 mm
Depth of the enclosure	129 mm
Required spacing	
 • top 	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.45 kg
Product feature of the enclosure housing for side-by- side mounting	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 (unless otherwise specified)