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

type of the power supply network 1-phase AC supply voltage at AC Automatic range selection supply voltage 1 at AC rated value 1 at AC rated value 20 V 2 at AC rated value 200 V input voltage 6 S 132 V 2 at AC rated value 200 V input voltage 8 S 132 V 2 at AC 170 264 V design of input wide range input No overvoltage coverload 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 4 Vin = 93/187 V in at rated value 50 Hz in at rated value 50 Hz in at rated input voltage 120 V 3.7 A i at rated input voltage 230 V 1.7 A current limitation of inrush current at 25 °C maximum 62 A duration of inrush current at 25 °C maximum 7.4 °s i trated input voltage 230 V 1.7 A<	Input	
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 on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 50 mV 	relative overall tolerance of the voltage	1 %
 on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 50 mV 	relative control precision of the output voltage	
 on slow fluctuation of ohm loading residual ripple maximum 50 mV 		0.1 %
residual ripple • maximum 50 mV	. –	0.1 %
• maximum 50 mV	-	
voltage peak		50 mV
	voltage peak	

• maximum	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	
 typical 	10 ms
output current	
rated value	8 A
rated range	0 8 A
supplied active power typical	192 W
short-term overload current	
	25 A
 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
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	90 %
power loss [W]	30 /0
	21 W
 at rated output voltage for rated value of the output current typical 	21 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	
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	3 %
of resistive load 10/90/10 % typical	
setting time	
 load step 10 to 90% typical 	5 ms
 load step 90 to 10% typical 	5 ms
• maximum	5 ms
Protection and monitoring	0 110
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
● 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	-
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
garvanic isolation	and EN 61131-2
operating resource protection class	Class I
leakage current	
0	2 E m 4
• maximum	3.5 mA
• typical	1.3 mA
protection class IP	IP20
Approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
• cCSAus, Class 1, Division 2	No
ATEX	
	Yes; ATEX (EX) II 3G Ex nA nC IIC T3 Gc
certificate of suitability	
 relating to ATEX 	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

NBC Class 2No• ULhazloc approvalYes• EM registrationYes (Class I, Div. 2, Group ABCD, T4type of certification CB-certificateYes• EAC approvalYes• EAC approvalYes• EaC autibility shipuliding approvalABS, BV, DNV GLMarine classification associationYes• American Bureau of Shipping Europe Ltd. (ABS)Yes• Fench marine classification society (BV)Yes• Env Vol.Yes• Loyds Register of Shipping (LRS)No• DNV GLYes• Loyds Register of Shipping (LRS)No• Nippon Kaji Kyokai (NK)NoEMCExtremeEN 5022 Class B• for emitted interferenceEN 55022 Class B• for emitted interferenceEN 55022 Class B• for emitted interferenceEN 55022 Class B• for or interference immunityEN 61000-6-2• during operation	• IECEx	Yes; IECEx Ex nA nC IIC T3 Gc
• Uhazloc approval Yes • FM registration Yes, Class I, Div. 2, Group ABCD, T4 Yep of certification CB-certificate Yes certificate of suitability Yes • EAC approval Yes certificate of suitability shipbuilding approval Yes • American Bureau of Shipping Europe Ltd. (ABS) Yes • American Bureau of Shipping (LRS) Yes • DNV GL Yes • Loyds Register of Shipping (LRS) No • Nippon Kuiji Kyokai (NK) No EMC Standard • for entitled interference EN 55022 Class B • for or mitted interference EN 55022 Class B • for interference immunity EN 61000-3-2 • for interference immunity Climate class 3K3, 5, 95% no condensation • during operation 0, 60 °C; with natural convection • during operation 0, 465 °C • during operation 1, YE: 1 screw terminal each for 0.5 to 2.5 mm² product function Yes • at output Yes • removable terminal at input <td>NEC Class 2</td> <td></td>	NEC Class 2	
• Mr registration Yes; Class I, Div. 2, Group ABCD, T4 type of certification CB-certificate Yes • EAC approval Yes • EAC autibuilty simplify approval Yes • American Bureau of Shipping Europe Ltd. (ABS) Yes • American Bureau of Shipping Europe Ltd. (ABS) Yes • French marine classification association Yes • American Bureau of Shipping (LRS) No • DNV GL Yes • Loyds Register of Shipping (LRS) No • Nippon Kaiji Kyokai (NK) No EMC Standard • for maints harmonics limitation EN 55022 Class B • for maints harmonics limitation EN 55022 Class B • for maints harmonics limitation EN 50022 Class B • for maints harmonics limitation EN 50022 Class B • for maints harmonics limitation EN 50022 Class B • during aperation 60 °C; with natural convection • during itransport -40 485 °C • during itransport -40 485 °C • during itransport -40 485 °C • during itransport L.N. PE': 15 cave terminal at one of 0.5 to 2.5 mm³ • at output Yes • at output Yes • enclosure 147 mm • detortical connection <td></td> <td>Yes</td>		Yes
type of certification CB-certificate Yes certificate of suitability Yes eCA approval Yes certificate of suitability shipbuilding approval Xes Amarice classification association Yes • American Bureau of Shipping Europe Ltd. (ABS) Yes • French marine classification society (BV) Yes • DNV GL Yes • Liodys Register of Shipping (LRS) No • Nippon Kaiji Kyokai (NK) No Ext Extended • for mains harmonics limitation EN 65022 Class B • for interference immunity EN 61000-3-2 • for interference immunity EN 61000-3-2 • for interference immunity EN 61000-6-2 environmental conditions EN 61000-6-2 environmental conditions EN 61000-6-2 environmental conditions EX 61000-6-2 environmental conditions C • during storage - 40485 °C • during storage - 40485 °C • during intrapo effectival connection - 40485 °C • at louput L N. PE: 1 screw		Yes: Class I. Div. 2. Group ABCD. T4
certificate of suitability Yes e.A.C. approval Yes shipbuilding approval ABS, BV, DNV GL Marine classification association + e. American Bureau of Shipping Europe Ltd. (ABS) Yes e. French marine classification society (BV) Yes e. I. Loyds Register of Shipping (LRS) No e. I. Loyds Register of Shipping (LRS) No e. Nippon Kaiji Kyokai (NK) No et and EMC standard EN 55022 Class B f. for emitted interference EN 55022 Class B e. for mains harmonics limitation EN 61000-3-2 e. for interference limmunity EN 6100-3-2 e. during storage Co e. during storage Co e. during storage Co	-	
• EAC approval Yes certificate of suitability shipbuilding approval ABS, BV, DNV GL Marine classification association ABS, BV, DNV GL • American Bureau of Shipping Europe Ltd. (ABS) Yes • DNV GL Yes • Inderican Bureau of Shipping Europe Ltd. (ABS) Yes • Inderican Bureau of Shipping (LTS) Yes • Liboyds Register of Shipping (LTS) No • Nopon Kaiji Kyokai (NK) No EMC Standard • for mains harmonics limitation EN 650022 Class B • for mains harmonics limitation EN 61000-3-2 • for interference immunity EN 61000-3-2 • for interference immunity EN 61000-3-2 • for interference immunity EN 61000-6-2 environmental conditions		
certificate of suitability shipbuilding approval Yes shipbuilding approval ABS, BV, DNV GL Marine classification association Yes American Bureau of Shipping Europe Ltd. (ABS) Yes DNV GL Yes DNV GL Yes Uoyds Register of Shipping (LRS) No EMC standard for menited interference for mains harmonics limitation EN 61000-3-2 for interference immunity EN 61000-3-2 of or emitted interference during operation during transport 40485 °C during storage at input Ly, N. PE: 1 screw terminal each for 0.5 2.5 mm^a tat input Ly N. PE: 1 screw terminal each for 0.5 2.5 mm^a removable terminal at input Yes removable terminal at input Ves removable terminal at output Yes <li< td=""><td>-</td><td>Yes</td></li<>	-	Yes
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