## **SIEMENS**

## **Data sheet**

## 6EP4346-7RB00-0AX0



## SITOP RED1200/RED.M./DC24/48V/2X10A

SITOP RED1200 redundancy module Input/output: 24/48 V DC/20 A Suitable for decoupling two SITOP power supplies with max. 10 A output current each

Type of the power supply network supply voltage  at DC input voltage  at DC  Output  voltage curve at output number of outputs output voltage at DC rated value formula for output voltage  at output voltage  **at OC  **Output voltage at DC rated value formula for output voltage  **at output 1 at DC rated value formula for output voltage  **at output 1 at DC rated value product function output voltage adjustable output current  **rated value product function output voltage adjustable output current  **rated value product function output voltage adjustable output current  **rated value product feature  **bridging of equipment  Efficiency  ###################################	Input	
at DC input voltage at DC 10 58 V  Cutput  voltage curve at output	type of the power supply network	DC voltage
input voltage	supply voltage	
output  voltage curve at output number of outputs output voltage at DC rated value formula for output voltage at DC rated value output voltage at DC rated value  • at output 1 at DC rated value  • at output 1 at DC rated value  • at output 1 at DC rated value  output current  • rated value  • bridging of equipment  * or fideincy in percent power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  Safety galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability  • CER marking  * Yes  • CEA approval • CSA approval • CSCA approval • CCSA approval • CCSA us, Class 1, Division 2 • ATEX • No  No  No  CICCES • No • NC • NEC Class 2 • UL hazloc approval • FM registration  No  No  No  No  No  No  No  No  No	• at DC	12 48 V
Output         Controlled DC voltage           voltage curve at output         Controlled DC voltage           number of outputs         1           output voltage at DC rated value         24 V           formula for output voltage         Vin - approx. 0.6 V           output voltage         4 output of at DC rated value           product function output voltage adjustable         No           output current         20 A           product feature         No           bridging of equipment         No           Efficiency         97.5 %           german finance         97.5 %           power loss [W]         12 W           • at rated output voltage for rated value of the output current typical         12 W           • during no-load operation maximum         0.1 W           Safety         Safety           galvanic isolation between input and output operating resource protection class         No           class III protection class IP         IP20           Approvals         Yes; CSL CSL CSC CSA CSA CSA CSA CSA CSA CSA CSA CSA	input voltage	
voltage curve at output number of outputs 1 number of outputs 1 output voltage at DC rated value formula for output voltage voltage  • at output 1 at DC rated value product function output voltage adjustable output current • rated value product feature • bridging of equipment  • rated value power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum  • Value  Safety galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • CE marking • CE sa Approval • CSAs Approval • CSAs Approval • CSAs Approval • CSAs Division 2 • ATEX • No • NEC Class 2 • ULhazloc approval • FM registration • No	• at DC	10 58 V
number of outputs output voltage at DC rated value formula for output voltage output voltage  • at output 1 at DC rated value product function output voltage adjustable output current • rated value product feature • bridging of equipment  • ortidging o	Output	
output voltage at DC rated value formula for output voltage output voltage • at output 1 at DC rated value product function output voltage adjustable output current • rated value product feature • bridging of equipment  Fificiency  efficiency in percent power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CSA (22.2 No. 107.1), File E197259 • ATEX certificate of suitability • IECEX • No • NEC Class 2 • ULhazloc approval • FM registration	voltage curve at output	Controlled DC voltage
formula for output voltage output voltage  • at output 1 at DC rated value product function output voltage adjustable output current • rated value product feature • bridging of equipment  • bridging of equipment  • bridging of equipment  • prover loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum  • J.1 W  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA sporoval • CSC SA (22.2 No. 62368-1) • ATEX • No  certificate of suitability • IECEX • No • NEC Class 2 • ULhazloc approval • FM registration	number of outputs	1
output voltage	output voltage at DC rated value	24 V
<ul> <li>at output 1 at DC rated value</li> <li>product function output voltage adjustable</li> <li>output current</li> <li>a rated value</li> <li>bridging of equipment</li> <li>Efficiency</li> <li>efficiency in percent</li> <li>power loss [W]</li> <li>at rated output voltage for rated value of the output current typical</li> <li>during no-load operation maximum</li> <li>during no-load operation maximum</li> <li>0.1 W</li> </ul> Safety galvanic isolation between input and output operating resource protection class in protection class IP protection class IP Approvals certificate of suitability <ul> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>CSA approval</li> <li>CSA approval</li> <li>CSA approval</li> <li>CSA (22.2 No. 62368-1)</li> <li>ATEX</li> <li>ATEX</li> <li>No</li> <li>ATEX</li> <li>No</li> <li>IECEX</li> <li>NO</li> <li>NO</li> <li>IECEX</li> <li>NO</li> <li>NO</li> <li>UL hazloc approval</li> <li>IECEX</li> <li>NO</li> <li>NO</li> </ul>	formula for output voltage	Vin - approx. 0.6 V
product function output voltage adjustable output current  • rated value product feature • bridging of equipment  Efficiency  efficiency  efficiency in percent power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum  O.1 W  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA c22.2 No. 62368-1 • No certificate of suitability • IECEX • NEC Class 2 • ULhazloc approval • IECEX • NEC Class 2 • ULhazloc approval • FM registration	output voltage	
product function output voltage adjustable output current  • rated value product feature • bridging of equipment  Efficiency  efficiency  efficiency in percent power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum  O.1 W  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA c22.2 No. 62368-1 • No certificate of suitability • IECEX • NEC Class 2 • ULhazloc approval • IECEX • NEC Class 2 • ULhazloc approval • FM registration		24 V
• rated value product feature • bridging of equipment  Efficiency  efficiency in percent power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum  0.1 W  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSAsus, Class 1, Division 2 • ATEX certificate of suitability • IECEx • No • NEC Class 2 • ULhazloc approval • IECEx • No • NEC Class 2 • ULhazloc approval • FM registration  No • FM registration		No
product feature	output current	
bridging of equipment  Fificiency  efficiency  efficiency in percent     power loss [W]	• rated value	20 A
efficiency  efficiency in percent power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA, class 1, Division 2 • ATEX certificate of suitability  • IECEX • NEC Class 2 • ULhazloc approval • FM registration  97.5 %  No  12 W  Caw Cash UN  No  (Class III IP20  No  Ves (Class III IP20  Yes (Class III IP20  Yes (Class III IP20  No  No  No  No  No  No  No  No  No  N	product feature	
efficiency in percent power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  O.1 W  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA, CSA poproval • CCSAus, Class 1, Division 2 • ATEX certificate of suitability  • IECEX • No  • NEC Class 2 • ULhazloc approval • FM registration  97.5 %  12 W  12	<ul><li>bridging of equipment</li></ul>	No
power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  0.1 W  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CCSAus, Class 1, Division 2 • ATEX certificate of suitability  • CESA c22.2 No. 62368-1  No certificate of suitability  • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CSA c22.2 No. 62368-1  No Certificate of suitability  • IECEX • NEC Class 2 • ULhazloc approval • FM registration	Efficiency	
at rated output voltage for rated value of the output current typical during no-load operation maximum  3.1 W  Safety  galvanic isolation between input and output operating resource protection class Portection class IP IP20  Approvals  certificate of suitability CE marking UL approval CSA approval CSA approval CSA, Class 1, Division 2 ATEX  certificate of suitability  IECEX No NEC Class 2 ULhazloc approval FM registration  12 W  0.1 W  18 Safety  19 Ves  19 Class III  19 Ves  19 Class III  19 Ves  19 Class III  19 Ves  19 Ves  10 Class III  10	efficiency in percent	97.5 %
current typical  • during no-load operation maximum  Safety  galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • CSA, Class 1, Division 2  • ATEX  certificate of suitability  • IECEX  • NEC Class 2  • ULhazloc approval  • EM registration  0.1 W  No  Class III  IP20  Yes  Class III  IP20  Yes  Class III  IP20  Yes  Class III  IP20  No  Calss III  IP20  No  Class III  IP20  No  Class III  IP20  No  Class III  IP20  No  Ves; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259  Yes; CSA C22.2 No. 62368-1  No  No  No  No  No  No  No  No  No  N	power loss [W]	
galvanic isolation between input and output operating resource protection class Class III protection class IP IP20  Approvals  certificate of suitability		12 W
galvanic isolation between input and output operating resource protection class protection class IP  Approvals  certificate of suitability	<ul> <li>during no-load operation maximum</li> </ul>	0.1 W
operating resource protection class protection class IP IP20  Approvals  certificate of suitability	Safety	
protection class IP IP20  Approvals  certificate of suitability	galvanic isolation between input and output	No
Approvals  certificate of suitability	operating resource protection class	Class III
certificate of suitability  CE marking  UL approval  CSA approval  CSA approval  CSAus, Class 1, Division 2  ATEX  Certificate of suitability  IECEx  No  NEC Class 2  ULhazloc approval  FM registration  Yes; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259  Yes; CSA C22.2 No. 62368-1  No  No  No  No  No  No  No  No  No  N	protection class IP	IP20
<ul> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>CSA c22.2 No. 107.1), File E197259</li> <li>CSA approval</li> <li>CCSAus, Class 1, Division 2</li> <li>ATEX</li> <li>ATEX</li> <li>IECEx</li> <li>No</li> <li>No</li> <li>No</li> <li>Certificate of suitability</li> <li>IECEx</li> <li>No</li> <li>FM registration</li> <li>Yes</li> <li>CSA C22.2 No. 62368-1</li> <li>No</li> </ul>	Approvals	
<ul> <li>UL approval</li> <li>CSA approval</li> <li>CSA C22.2 No. 107.1), File E197259</li> <li>CSA approval</li> <li>CCSAus, Class 1, Division 2</li> <li>ATEX</li> <li>No</li> <li>Certificate of suitability</li> <li>IECEx</li> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> </ul> Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; CSA C22.2 No. 62368-1 No No<	certificate of suitability	
<ul> <li>CSA approval</li> <li>CCSAus, Class 1, Division 2</li> <li>ATEX</li> <li>No</li> <li>Certificate of suitability</li> <li>IECEx</li> <li>No</li> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> <li>Yes; CSA C22.2 No. 62368-1</li> <li>No</li> </ul>	<ul> <li>CE marking</li> </ul>	Yes
<ul> <li>CSA approval</li> <li>CCSAus, Class 1, Division 2</li> <li>ATEX</li> <li>No</li> <li>Certificate of suitability</li> <li>IECEx</li> <li>No</li> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> <li>Yes; CSA C22.2 No. 62368-1</li> <li>No</li> </ul>	UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul> <li>ATEX</li> <li>Certificate of suitability</li> <li>IECEx</li> <li>NO</li> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> <li>NO</li> </ul>	CSA approval	
certificate of suitability  IECEX  No  NEC Class 2  ULhazloc approval FM registration  No	• cCSAus, Class 1, Division 2	No
<ul> <li>IECEx</li> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> <li>No</li> </ul>		No
<ul> <li>IECEx</li> <li>NEC Class 2</li> <li>ULhazloc approval</li> <li>FM registration</li> <li>No</li> </ul>	certificate of suitability	
<ul> <li>ULhazloc approval</li> <li>FM registration</li> <li>No</li> </ul>	• IECEx	No
• FM registration No	NEC Class 2	No
• FM registration No	ULhazloc approval	No
	• •	No
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Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 61000-6-3
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-30 +70 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul> <li>during storage</li> </ul>	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	Push-in terminals
• at input	In1, In2: each for 0.2 10 mm <sup>2</sup>
<ul><li>at output</li></ul>	Out1: 0.2 10 mm²
width of the enclosure	35 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
• top	45 mm
<ul><li>bottom</li></ul>	45 mm
• left	0 mm
• right	0 mm
net weight	0.47 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	8 100 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

