## 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         DC voltage           supply voltage         -           • at DC         12 48 V           Input voltage         -           • at DC         10 58 V           Output         -           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. 0.8 V           output voltage at DC rated value         24 V           output voltage at DC rated value         24 V           output voltage adjustable         No           output voltage adjustable         No           output voltage dupt netter         20 A           product feature         20 A           bridging of equipment         No           bridging of equipment         12 W           efficiencry         12 W           ournent typical         0.1 W           starde output voltage for rated value of the output         12 W           ournent typical         0.1 W           starde         12 W           ournent typical         0.1 W           starde         12 W           cortado an maximum	Input	
• at DC       12 48 V         input voltage       10 58 V         Output       Controlled DC voltage         number of outputs       1         output of outputs       1         output voltage at DC rated value       24 V         formula for output voltage       Vin - approx. 0.6 V         output voltage at DC rated value       24 V         induct function output voltage adjustable       No         output voltage adjustable       No         output tat DC rated value       20 A         product feature       20 A         e rated value       20 A         product feature       20 A         e fifciency in percent       No         power loss [W]       -         e during no-load operation maximum       0.1 W         Safety	type of the power supply network	DC voltage
input voltage       10, 58 V         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       24 V         output current       24 V         • rated value       20 A         product (nnchron output voltage adjustable       00 A         output current       80 A         • bridging of equipment       97.5 %         power loss [W]       12 W         • auring no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output         operating resource protection class       Class III         protection class IP       IP20         Approval       Yes; OLUus-Liste	supply voltage	
• at DC       10 58 V         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       24 V         product function output voltage adjustable       No         output current       24 V         i rated value       24 V         product function output voltage adjustable       No         output current       20 A         product feature       20 A         e tated value       20 A         product feature       12 W         e bridging of equipment       No         forciency in percent       97.5 %         power loss [M]       • at rated output voltage for rated value of the output         e during no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output         operating resource protection class       Class III         protection class IP       IP20         Approvals       Yes; CLus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         ectificate of suitability       Yes; CSA C22.2 No. 62368-1         eCEMaxis, Class 1, Division 2       No         eCEMaxi	• at DC	12 48 V
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         Vin - approx. 0.6 V           output voltage         24 V           product function output voltage adjustable         No           output voltage adjustable         No           output voltage adjustable         No           output current         20 A           product feature         20 A           • bridging of equipment         No           Efficiency in percent         97.5 %           power loss [W]         12 W           • at rated output voltage for rated value of the output current lypical         12 W           galvanic isolation between input and output         No           operating resource protection class         Class III           protection class IP         IP20           Approval         Yes           eutrice of suitability         Yes           • CE marking         Yes           • UL approval         Yes           • CESAus, Class 1, Division 2         No           • ATEX         No           certificate of suitability </td <td>input voltage</td> <td></td>	input 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         24 V           e at output 1 at DC rated value         24 V           product function output voltage adjustable         No           output current         20 A           • rated value         20 A           product feature         20 A           • bridging of equipment         No           Efficiency         97.5 %           power loss [W]         12 W           • atted output voltage for rated value of the output current typical         0.1 W           • during no-load operation maximum         0.1 W           Safety         galvanic isolation between input and output           operating resource protection class         Class III           protection class IP         IP20           Approvals         Certificate of suitability           • CE marking         Yes; CLLus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259           • CSA Approval         Yes; CSA C22.2 No. 62368.1           • CECEX         No           certificate of suitability         Yes; CSA C22.2 No. 62368.1	• at DC	10 58 V
number of outputs       1         output voltage at DC rated value       24 V         formula for output voltage       Vin - approx. 0.6 V         output voltage       24 V         e at output 1 at DC rated value       24 V         product function output voltage adjustable       No         output voltage       20 A         product feature       20 A         • bridging of equipment       No         Efficiency       97.5 %         power loss [W]       12 W         • at rated output voltage for rated value of the output ourrent typical       12 W         • during no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output         galvanic isolation between input and output       No         oprotest roles as IP       IP20         Approvals       Yes; CSA C22.2 No. 62368-1         certificate of suitability       Yes; CSA C22.2 No. 62368-1         • CSA approval       Yes; CSA C22.2 No. 62368-1         • CSA sproval       Yes; CSA C22.2 No. 62368-1         • CCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       Yes; CSA C22.2 No. 62368-1         • NEC Class 2       No <td>Output</td> <td></td>	Output	
output voltage at DC rated value     24 V       formula for output voltage     Vin - approx. 0.6 V       output voltage     24 V       output 1 at DC rated value     24 V       product function output voltage adjustable     No       output current     20 A       e hidging of equipment     No       Efficiency     97.5 %       power loss [W]     12 W       e trated output voltage for rated value of the output current typical     0.1 W       Safety     12 W       galvanic isolation between input and output     No       operating resource protection class     Class III       protoction class IP     IP20       Approval     Yes; CSA C22.2 No. 62368-1       e CSAuproval     Yes; CSA C22.2 No. 62368-1       e CSAus, Class 1, Division 2     No       e Celficate of suitability     Yes; CSA C22.2 No. 62368-1       e CECax     No       e Celficate of suitability     Yes; CSA C22.2 No. 62368-1       e CECax     No	voltage curve at output	Controlled DC voltage
formula for output voltage       Vin - approx. 0.6 V         output voltage       24 V         e at output 1 at DC rated value       24 V         product function output voltage adjustable       No         output current       20 A         e rated value       20 A         product feature       No         e bridging of equipment       No         Efficiency       97.5 %         power loss [W]       12 W         e during no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output         operating resource protection class       PP20         Approvals       Class III         certificate of suitability       Yes; CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 2036-1         • CCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       Yes; CSA C22.2 No. 2036-1         • CEC x       No         • NEC Class 2       No	number of outputs	1
output voltage       24 V         product function output voltage adjustable       No         output current       20 A         i rated value       20 A         product feature       0         • bridging of equipment       No         Efficiency       97.5 %         power loss [W]       0.1 W         • during no-load operation maximum       0.1 W         Safaty       galvanic isolation between input and output         operating resource protection class       Class III         protection class IP       IP20         Approvals       Yes         certificate of suitability       Yes; CSA C22.2 No. 107.1), File E197259         • CSAus, Class 1, Division 2       No         • ATEX       No         ectrificate of suitability       Yes; CSA C22.2 No. 62368-1         • CCSAus, Class 1, Division 2       No         • ATEX       No         • IECEx       No         • NEC Class 2       No	output voltage at DC rated value	24 V
• at output 1 at DC rated value     24 V       product function output voltage adjustable     No       output current     20 A       • rated value     20 A       product feature     20 A       • bridging of equipment     No       Efficiency        efficiency in percent     97.5 %       power loss [W]     12 W       • at rated output voltage for rated value of the output current typical     0.1 W       Safety        galvanic isolation between input and output     No       operating resource protection class     Class III       protocticate of suitability     Yes       • CE marking     Yes; CSA C22.2 No. 107.1), File E197259       • CSA approval     Yes; CSA C22.2 No. 62368-1       • CCSAus, Class 1, Division 2     No       • ATEX     No       certificate of suitability        • ECEx     No       • NEC Class 2     No	formula for output voltage	Vin - approx. 0.6 V
product function output voltage adjustable         No           output current         20 A           intaled value         20 A           product feature         No                • bridging of equipment         No           Efficiency         97.5 %           efficiency in percent         97.5 %           power loss [W]         • at rated output voltage for rated value of the output           • at rated output voltage for rated value of the output         12 W           current typical         0.1 W           safety	output voltage	
output current     20 A       rated value     20 A       product feature	<ul> <li>at output 1 at DC rated value</li> </ul>	24 V
• rated value20 Aproduct featureNo• bridging of equipmentNoEfficiency97.5 %power loss [W]97.5 %• darated output voltage for rated value of the output current typical12 W• during no-load operation maximum0.1 WSafety98.0 Mgalvanic isolation between input and outputNooperating resource protection classClass III P20protection class IPIP20ApprovalsCettificate of suitability• CE markingYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• CCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityIECEx• LECExNo• NEC Class 2No	product function output voltage adjustable	No
product feature       No         Efficiency       No         efficiency in percent       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       galvanic isolation between input and output         operating resource protection class       Class III         protection class IP       IP20         Approvals       certificate of suitability         • CE marking       Yes         • UL approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA us, Class 1, Division 2       No         • ATEX       No         certificate of suitability       IPECS         • ATEX       No         No       No	output current	
• bridging of equipmentNoEfficiencyefficiency in percent97.5 %power loss [W]12 W• at rated output voltage for rated value of the output current typical12 W• during no-load operation maximum0.1 WSafetygalvanic isolation between input and outputNooperating resource protection classClass IIIprotection class IPIP20Approvalscertificate of suitabilityYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CE markingYes; cSA C22.2 No. 20368-1• CCS AuprovalYes; CSA C22.2 No. 20368-1• CCS Aus, Class 1, Division 2No• ATEXNo• Detection of suitabilityIECEx• NEC Class 2No	rated value	20 A
Efficiency         efficiency in percent       97.5 %         power loss [W]       • at rated output voltage for rated value of the output current typical       12 W         • during no-load operation maximum       0.1 W         Safety	product feature	
efficiency in percent       97.5 %         power loss [W]       • at rated output voltage for rated value of the output current typical       12 W         • during no-load operation maximum       0.1 W         Safety       0.1 W         galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals       certificate of suitability         • CE marking       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       IECEx         • NEC Class 2       No	<ul> <li>bridging of equipment</li> </ul>	No
power loss [W]       it rated output voltage for rated value of the output current typical       12 W         • during no-load operation maximum       0.1 W         Safety       galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals       certificate of suitability         • CE marking       Yes         • UL approval       Yes; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       INO         • CERARK       No         • ATEX       No         • NEC Class 2       No	Efficiency	
• at rated output voltage for rated value of the output current typical12 W• during no-load operation maximum0.1 WSafety0.1 Wgalvanic isolation between input and outputNooperating resource protection classClass IIIprotection class IPIP20Approvalscertificate of suitability• CE markingYes• UL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• ocSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityIECEx• NoNocertificate of suitabilityNo• ATEXNo• NEC Class 2No	efficiency in percent	97.5 %
current typical     0.1 W       safety     0.1 W       galvanic isolation between input and output     No       operating resource protection class     Class III       protection class IP     IP20       Approvals     certificate of suitability       • CE marking     Yes       • UL approval     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259       • CSA approval     Yes; CSA C22.2 No. 62368-1       • cCSAus, Class 1, Division 2     No       • ATEX     No       certificate of suitability     IECEx       • NEC Class 2     No	power loss [W]	
Safety       No         galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals       Certificate of suitability         • CE marking       Yes         • UL approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       IECEx         • NEC Class 2       No		12 W
galvanic isolation between input and output       No         operating resource protection class       Class III         protection class IP       IP20         Approvals       Ves         certificate of suitability       Yes         • CE marking       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       IECEx         • NEC Class 2       No	<ul> <li>during no-load operation maximum</li> </ul>	0.1 W
operating resource protection classClass IIIprotection class IPIP20Approvalscertificate of suitability• CE markingYes• UL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitability• IECExNo• NEC Class 2No	Safety	
protection class IP       IP20         Approvals       certificate of suitability         • CE marking       Yes         • UL approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability       IECEx         • NEC Class 2       No	galvanic isolation between input and output	No
Approvals         certificate of suitability          • CE marking       Yes         • UL approval       Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         • CSA approval       Yes; CSA C22.2 No. 62368-1         • cCSAus, Class 1, Division 2       No         • ATEX       No         certificate of suitability          • IECEx       No         • NEC Class 2       No	operating resource protection class	Class III
certificate of suitability     Yes       • CE marking     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259       • UL approval     Yes; CSA C22.2 No. 62368-1       • CSA approval     Yes; CSA C22.2 No. 62368-1       • cCSAus, Class 1, Division 2     No       • ATEX     No       certificate of suitability     IECEx       • NEC Class 2     No	protection class IP	IP20
• CE markingYes• UL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityI• IECExNo• NEC Class 2No	Approvals	
• UL approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityImproved to the suitability• IECExNo• NEC Class 2No	certificate of suitability	
• CSA approvalYes; CSA C22.2 No. 62368-1• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityIECEx• IECExNo• NEC Class 2No	CE marking	Yes
• cCSAus, Class 1, Division 2     No       • ATEX     No       certificate of suitability     IECEx       • NEC Class 2     No	UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• ATEX     No       certificate of suitability	CSA approval	Yes; CSA C22.2 No. 62368-1
certificate of suitability       • IECEx       • NEC Class 2       No	<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
IECEx     No     NeC Class 2     No	• ATEX	No
NEC Class 2     No	certificate of suitability	
	• IECEx	No
ULhazloc approval     No	NEC Class 2	No
	ULhazloc approval	No
FM registration     No	• FM registration	No

certificate of suitability shipbuilding approval	No
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
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	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
during storage	-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>
• at output	Out1: 0.2 10 mm <sup>2</sup>
width of the enclosure	35 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
• top	45 mm
bottom	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 $^\circ\text{C}$ (unless otherwise specified)

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