

SIPLUS PS PSE200U 10A  
 SIPLUS PS PSE200U 10 A with conformal coating based on  
 6EP1961-2BA41 . SELECTIVITY module 4-channel 4-channel input:  
 24 V DC Output: 24 V DC/10 A per channel output current adjustable  
 3-10 with status message per channel



Input	
type of the power supply network	Controlled DC voltage
supply voltage / at DC / rated value	24 V
input voltage / at DC	22 ... 30 V
overvoltage overload capability	35 V
input current / at rated input voltage 24 V / rated value	40 A

Output	
voltage curve / at output	controlled DC voltage
formula for output voltage	$V_{in} - \text{approx. } 0.2 \text{ V}$
relative overall tolerance / of the voltage / note	In accordance with the supplying input voltage
number of outputs	4
output current / up to 60 °C / per output / rated value	10 A
adjustable pick-up value current / of the current-dependent overload release	3 ... 10 A
type of response value setting	via potentiometer
product feature	
<ul style="list-style-type: none"> <li>parallel switching of outputs</li> </ul>	No
<ul style="list-style-type: none"> <li>bridging of equipments</li> </ul>	Yes

type of outputs connection	Simultaneous connection of all outputs after power up of the supply voltage > 20 V, delay time of 25 ms, 100 ms or adjustable "load optimised" via DIP switch for sequential connection
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### Efficiency

efficiency in percent	99 %
power loss [W] / at rated output current / for rated value of the output current / typical	10 W

### Switch-off characteristic per output

switching characteristic	<ul style="list-style-type: none"> <li>of the excess current</li> <li>of the current limitation</li> <li>of the immediate switch-off</li> </ul>	<p><math>I_{out} = 1.0 \dots 1.5 \times \text{set value}</math>, switch-off after approx. 5 s</p> <p><math>I_{out} = 1.5 \times \text{set value}</math>, switch-off after typ. 100 ms</p> <p><math>I_{out} &gt; \text{set value}</math> and <math>V_{in} &lt; 20 \text{ V}</math>, switch-off after approx. 0.5 ms</p>
residual current at switch-off / typical	1 mA	
design of the reset device/resetting mechanism	via sensor per output	
remote reset function	Non-electrically isolated 24 V input (signal level "high" at > 15 V)	

### Protection and monitoring

fuse protection type / at input	15 A per output (not accessible)
display version / for normal operation	Three-color LED per output: green LED for "Output switched through"; yellow LED for "Output switched off manually"; red LED for "Output switched off due to overcurrent"
design of the switching contact / for signaling function	Status signal output (pulse/pause signal, can be evaluated via Simatic function block)

### Safety

galvanic isolation / between input and output at switch-off	No
standard / for safety	according to EN 60950-1 and EN 50178
operating resource protection class	Class III
protection class IP	IP20

### Approvals

certificate of suitability	
<ul style="list-style-type: none"> <li>CE marking</li> </ul>	Yes

### EMC

standard	
<ul style="list-style-type: none"> <li>for emitted interference</li> <li>for interference immunity</li> </ul>	<p>EN 55022 Class B</p> <p>EN 61000-6-2</p>

### environmental conditions

ambient temperature	
<ul style="list-style-type: none"> <li>in horizontal mounting position / during operation</li> <li>during storage and transport</li> </ul>	<p>-25 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p>

installation altitude / at height above sea level / maximum	6 000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m
relative humidity / with condensation / acc. to IEC 60068-2-38 / maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air
resistance to biologically active substances / conformity acc. to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
resistance to chemically active substances / conformity acc. to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
resistance to mechanically active substances / conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust
resistance to biologically active substances / conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
resistance to chemically active substances / conformity acc. to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
resistance to mechanically active substances / conformity acc. to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust
coating / for equipped printed circuit board / acc. to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Type 1 protection
type of test / of the coating / acc. to MIL-I-46058C	Yes; Discoloration of the coating during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal Coating, Class A

## Mechanics

type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> <li>• at input</li> </ul>	+24 V: 2 screw terminals for 0.5 ... 16 mm <sup>2</sup> ; 0 V: 2 screw terminals for 0.5 ... 4 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• at output</li> </ul>	Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• for signaling contact</li> </ul>	1 screw terminal for 0.5 ... 4 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	Remote reset: 1 screw terminal for 0.5 ... 4 mm <sup>2</sup>
width / of the enclosure	72 mm
height / of the enclosure	80 mm
depth / of the enclosure	72 mm
installation width	72 mm
mounting height	180 mm
net weight	0.2 kg
mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20

