

SIMATIC S7-400, PS 407 POWER SUPPLY, 20A, 120/230V UC,  
5V/20A DC

Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> <li>• 120 V DC</li> <li>• 230 V DC</li> </ul>	Yes; Rated value 110 V DC Yes
permissible range, lower limit (DC)	88 V
permissible range, upper limit (DC)	300 V
Rated value (AC)	
<ul style="list-style-type: none"> <li>• 120 V AC</li> <li>• 230 V AC</li> </ul>	Yes Yes
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
Line frequency	
<ul style="list-style-type: none"> <li>• Rated value 50 Hz</li> <li>• Rated value 60 Hz</li> <li>• permissible range, lower limit</li> <li>• permissible range, upper limit</li> </ul>	Yes Yes 47 Hz 63 Hz
Mains buffering	
<ul style="list-style-type: none"> <li>• Mains/voltage failure stored energy time</li> <li>• Mains buffering according to NAMUR recommendation</li> </ul>	20 ms Yes
Input current	
Rated value at 110 V DC	1.5 A
Rated value at 230 V DC	0.8 A
Rated value at 120 V AC	1.5 A
Rated value at 230 V AC	0.8 A
Inrush current, max.	48 A; Full width at half maximum 1.5 ms
Output voltage	
Rated value (DC)	
<ul style="list-style-type: none"> <li>• 5 V DC</li> <li>• 24 V DC</li> </ul>	Yes Yes
Output current	
for backplane bus (5 V DC), max.	20 A; 200 mA base load required
for backplane bus (24 V DC), max.	1 A; idling-proof
Short-circuit protection	Yes

<b>Power</b>	
Active power input, typ.	168 W
<b>Power loss</b>	
Power loss, typ.	44 W
<b>Battery</b>	
Backup battery	
• Backup battery (optional)	Yes; 2x lithium AA; 3.6 V / 1.9 Ah
<b>Hardware configuration</b>	
Slots	
• required slots	3
<b>Potential separation</b>	
primary/secondary	Yes
<b>EMC</b>	
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes
<b>Degree and class of protection</b>	
Protection class	1; with protective conductor
<b>Standards, approvals, certificates</b>	
FM approval	Yes; up to 40 °C: T4
<b>Connection method</b>	
Connecting cables/cross-sections	3x 1.5 mm <sup>2</sup> , solid or stranded wire with end sleeve, external diameter 3 mm to 9 mm
<b>Dimensions</b>	
Width	75 mm
Height	290 mm
Depth	217 mm
<b>Weights</b>	
Weight, approx.	2 200 g
<b>last modified:</b>	03/24/2017