

Power supply unit, Single-phase, 90 - 264 V AC / 24 V DC, 2.5 A, 68 W

Part no. PSL60E24RP
EP-401404

General specifications		
Product name		Eaton PSL power supply unit
Part no.		PSL60E24RP
Product Length/Depth		91 millimetre
Product height		55.6 millimetre
Product width		71 millimetre
Product weight		0.22 kilogram
Certifications		EN 61000-4-11 IEC/EN 61000-4-3 RoHS conform CISPR 35/EN 55035 IEC 61000-4-4 P65 EN 61000-3-2 REACH IEC/EN 61000-4-2 EN 55032 TSCA IEC 61000-4-8: 2010 IEC 62368-1 IEC 61000-4-5 EN IEC 63000 EN 61000-3-3 IEC 61000-4-6
Product Tradename		PSL
Product Type		Power supply unit
Product Sub Type		None
Public Consumption		Yes
PDH Status		Active
Product Family Description		ES-PMCC-ICP-ES-PMCC-ICP-Eaton PSG and PSL Power supplies
Globally Marketable		Yes
Product Specification Details		
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Meets the product standard's requirements.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
Altitude		Max. 2000 m

Ambient operating temperature - max		71 °C
Ambient operating temperature - min		-25 °C
Ambient storage temperature - max		85 °C
Ambient storage temperature - min		-25 °C
Built-in height		91 mm
Built-in width		71 mm
Burst impulse		2 kV, according to IEC/EN 61000-4-4, Level 3
Capacitive load		3000 µF max. Capacitive load starting, Output characteristic
Climatic proofing		< 95 % relative humidity at +25 °C, no condensation
Contact discharge		4 kV, according to IEC/EN 61000-4-2, Level 3, ESD
Degree of Protection		IP20
Efficiency		> 88 % (230 V AC) > 88 % (115 V AC)
Electric connection type		Screw connection
Enclosure material		Plastic
Equipment heat dissipation, current-dependent Pvid		8 W
Features		Output voltage stabilized
Heat dissipation capacity Pdis		8 W
Heat dissipation per pole, current-dependent Pvid		8 W
Input voltage at AC 50 Hz - max		264 V
Input voltage at AC 50 Hz - min		90 V
Input voltage at AC 60 Hz - max		264 V
Input voltage at AC 60 Hz - min		90 V
Input voltage at DC - max		375 V
Input voltage at DC - min		125 V
Inrush current		< 60 A at 230 V AC (Inrush current limitation I ² t (+25 °C)) < 30 A at 115 V AC (Inrush current limitation I ² t (+25 °C))
Insulation resistance		3 kV AC (input/output)
Leakage current at ground IPE - max		< 0.25 mA (at 240 V AC)
LED indicator		Status indication of "DC OK": Green LED
Mean time between failures (MTBF)		> 500,000 h
Nominal output current 1		2.5 A
Nominal output current 2		0 A
Nominal output current 3		0 A
Nominal Output Voltage 1		24 V
Nominal Output Voltage 2		0 V
Nominal Output Voltage 3		0 V
Number of phases		1
Output current 1 - max		2.5 A
Output current 2 - max		0 A
Output current 3 - max		0 A
Output current at AC, 50 Hz - max		2.5 A
Output current at AC, 60 Hz - max		2.5 A
Output current at DC - max		2.5 A
Output voltage		24 V
Output voltage 1 - max		24 V
Output voltage 1 - min		24 V
Output voltage 2 - max		0 V
Output voltage 2 - min		0 V
Output voltage 3 - max		0 V
Output voltage 3 - min		0 V
Output voltage at AC 50 Hz - max		24 V
Output voltage at AC 50 Hz - min		24 V
Output voltage at AC 60 Hz - max		24 V
Output voltage at AC 60 Hz - min		24 V
Output voltage at DC - max		24 V

Output voltage at DC - min		24 V
Overvoltage category		II
Phase		Single-phase
Pollution degree		2
Power consumption		68 W
Power output		60 W
Product category		Power supply
Protection class		2 (IEC/EN 60536)
Ramp/run-up time		< 2000 ms
Rated frequency - max		63 Hz
Rated frequency - min		47 Hz
Rated operational current for specified heat dissipation (I _n)		0 A
Rated output power		60 W
Relative humidity		5 - 95 % (non-condensing)
Safety performance level (EN ISO 13849-1)		None
Shock resistance		4 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 22 ms, 9 Impacts
SIL (IEC 61508)		None
Supply frequency		63 Hz, Input, max. Range 47 Hz, Input, min. Range 50/60 Hz, Input, Rated value
Supply voltage at AC, 50 Hz - max		264 V AC
Supply voltage at AC, 50 Hz - min		90 V AC
Supply voltage at AC, 60 Hz - max		264 V AC
Supply voltage at AC, 60 Hz - min		90 V AC
Supply voltage at DC - max		375 V DC
Supply voltage at DC - min		125 V DC
Terminal capacity (flexible with ferrule AWG)		Input / output: 22 - 12
Terminal capacity (flexible with ferrule)		Input / output: 0.32 - 3.3 mm ²
Tripping characteristic		B
Vibration resistance		10 - 500 Hz at 30 m/s ² (3 G max) for 60 min. in X-axis, Y-axis, Z-axis directions, (IEC/EN 60068-2-6)
Voltage tolerance		± 2 %, Rated output voltage
Width in number of modular spacings		4

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / DC-power supply (EC002540)

Electric engineering, automation, process control engineering / Power supply devices / Power supply device / Continuous current supply (ec@ss13-27-04-07-01 [AFX040008])

Voltage type (supply voltage)		
1st secondary output voltage	V	24 - 24
2nd secondary output voltage	V	0 - 0
3rd secondary output voltage	V	0 - 0
Max. output current 1	A	2.5
Max. output current 2	A	0
Max. output current 3	A	0
Secondary voltage adjustable		No
Nominal value output voltage 1	V	24
Nominal value output voltage 2	V	0
Nominal value output voltage 3	V	0
Nominal value output current 1	A	2.5
Nominal value output current 2	A	0
Nominal value output current 3	A	0
Short-circuit-proof		No
Rated supply voltage AC 50 Hz	V	90 - 264
Rated supply voltage AC 60 Hz	V	90 - 264
Rated supply voltage DC	V	125 - 375
Output voltage stabilized		Yes

Power consumption	VA	68
Power output	W	60
Stabilized		No
Type of electric connection		Screw connection
Rail mounting possible		No
Wall mounting possible		No
Modular version		No
Width in number of modular spacings		4
Built-in width	mm	71
Built-in height	mm	91
Direct mounting possible		No
Width	mm	71
Height	mm	55.6
Depth	mm	91
Suitable for safety functions		No
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Degree of protection (IP)		IP20
Degree of protection (NEMA)		