



### Main

Range of Product	Modicon Power Supply
Product or Component Type	Power supply
Power supply type	Regulated switch mode
Variant option	Optimized
Enclosure Material	Aluminum
Nominal input voltage	100...240 V AC single phase 100...240 V AC 2 phases 140...340 V DC
Input voltage limits	85...264 V AC 120...375 V DC
Kw Rating	120 W
Output voltage	12 V DC
Power supply output current	10 A

### Complementary

Nominal network frequency	50...60 Hz
Network system compatibility	TN TT IT
Maximum leakage current	1 mA 240 V AC
Input protection type	Integrated fuse (not interchangeable) 4 A External protection (recommended) 20 A Curve C External protection (recommended) 13 A Curve C
Inrush current	30.0 A 115 V 60.0 A 230 V
Power factor	0.55 at 115 V AC 0.45 at 230 V AC
Efficiency	84 % 115 V AC 86 % 230 V AC
Output voltage adjustment	11...14 V
Power dissipation in W	25 W
Current consumption	< 2.5 A 115 V AC < 1.4 A 230 V AC < 1.3 A 140 V DC
Turn-on time	< 1 s
Holding time	> 20 ms 115 V AC > 40 ms 230 V AC
Startup with capacitive loads	8000 µF
Residual ripple	< 120 mV
Expected capacitor life time	10 year(s)
Meantime between failure [MTBF]	700000 h at 77 °F (25 °C), full load conforming to SR 332
Output protection type	Against overload and short-circuits automatic reset Against over temperature manual reset Against overvoltage manual reset
Connections - terminals	Screw connection 0.5...4 mm <sup>2</sup> , AWG 20...AWG 12) without wire end ferrule output Screw connection 0.5...2.5 mm <sup>2</sup> , AWG 20...AWG 14) with wire end ferrule output Screw connection 0.75...4 mm <sup>2</sup> , AWG 18...AWG 12) without wire end ferrule input Screw connection 0.75...4 mm <sup>2</sup> , AWG 18...AWG 12) with wire end ferrule input

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Line and load regulation	< 0.5 %line < 1 %load
Status LED	Output voltage 1 LED Green)
Depth	4.63 in (117.6 mm)
Height	4.87 in (123.6 mm)
Width	1.57 in (40 mm)
Net Weight	1.15 lb(US) (0.52 kg)
Output coupling	Parallel Serial
Mounting support	Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 Double-profile DIN rail
Supply	SELV EN/IEC 60950-1 SELV EN/IEC 60204-1 SELV IEC 60364-4-41

## Environment

Standards	EN 62368-1 EN/IEC 61010-1 EN 61010-2-201 EN/IEC 61204-3 EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4 EN 61000-3-2 EN 61000-3-3 UL 62368-1 UL 61010-1 UL 61010-2-201 CSA C22.2 No 62368-1 CSA C22.2 No 61010-1 CSA C22.2 No 61010-2-201 EN/IEC 62368-1
Product certifications	CE CUL Listed CUL Recognized RCM CB Scheme EAC KC
Environmental characteristic	3M4 IEC 60721-3-3
Operating altitude	< 5000 m
Shock resistance	100 m/s <sup>2</sup> 11 ms
IP degree of protection	IP20
Ambient air temperature for operation	-4...14 °F (-20...-10 °C) with current derating of 2 % per °C 104...158 °F (40...70 °C) with current derating of 1.8 % per °C 122...158 °F (50...70 °C) with current derating of 2.5 % per °C
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative Humidity	0...95 % without condensation
Overvoltage category	II
Electrical energy source class conforming to IEC 62368-1	ES1
Electrical shock protection class	Class I
Pollution degree	2
Vibration resistance	3 mm 2...9 Hz)IEC 60068-2-6 10 m/s <sup>2</sup> 9...200 Hz)IEC 60068-2-6

Electromagnetic immunity	Immunity to electrostatic discharge 6 kV contact discharge) EN/IEC 61000-4-2 Immunity to electrostatic discharge 9 kV air discharge) EN/IEC 61000-4-2 Immunity to conducted RF disturbances 10 V/m 80 MHz...2 GHz) EN/IEC 61000-4-3 Immunity to conducted RF disturbances 5 V/m 2...2.7 GHz) EN/IEC 61000-4-3 Immunity to conducted RF disturbances 3 V/m 2.7...6 GHz) EN/IEC 61000-4-3 Immunity to fast transients 4 kV on input-output) EN/IEC 61000-4-4 Surge immunity test 3 kV between power supply and earth) EN/IEC 61000-4-5 Surge immunity test 1.5 kV between phases) EN/IEC 61000-4-5 Immunity to conducted RF disturbances 10 V 0.15...80 MHz) EN/IEC 61000-4-6 Immunity to magnetic fields 30 A/m 50...60 Hz) EN/IEC 61000-4-8 Immunity to voltage dips EN/IEC 61000-4-11 Disturbing field emission EN 55016-2-3 Limits for harmonic current emissions EN 61000-3-2 Conducted disturbance emission EN 55016-1-2 Conducted disturbance emission EN 55016-2-1
Electromagnetic emission	Conducted emissions EN 61000-6-3 Radiated emissions EN 61000-6-4
Dielectric strength	3000 V AC input to output

## Ordering and shipping details

GTIN	3606481500229
Nbr. of units in pkg.	1
Package weight(Lbs)	23.77 oz (674 g)

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.13 in (5.4 cm)
Package 1 width	6.89 in (17.5 cm)
Package 1 Length	7.09 in (18 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	13
Package 2 Weight	20.66 lb(US) (9.37 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.