

Industrial Power Supplies



TCL Series, 24 - 240 Watt

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Features

- Compact plastic case for DIN rail mounting
- For industrial, office & residential environments
- Standard models with 5, 12, 24 & 48VDC outputs
- Models with universal (85-264VAC) & DC Inputs
- Adjustable output voltage
- Power Good Signal
- Parallel & redundant operation
- Available with detachable screw terminals or spring clips



Electrical Specification

Input Voltage Range	85-264Vac universal input, 50/60Hz / 85-375VDC TCL 240 models: 85-132 / 187-264Vac (autorange)
Output Regulation	1.25% max.
Ripple & Noise	<50mV pk-pk (20MHz BW)
EMI Emission	EN55011 class B, EN55022 class B, EN61000-6-3
EMC Immunity	EN61000-6-2 (industrial environment), SEMI F47
Output Current Limitation	130% of Iout max.
Overvoltage Protection	140% of Vout max.
Efficiency	90% typical
DC-OK signal	open collector / max. 30mA
Operating Temperature Range	-10°C to +70°C (derate at 1.7%/°C above 50°C)
Safety Approvals	cUL/UL 60950-1, UL 508C listed, IEC/EN 60950-1, CB report, EN 50178, EN 60204, EN 61558-2-8
Connections	detachable screw terminals or spring clamp terminals
Casing	plastic (UL94V-0 rated)
Mounting	snap-on mounting on 35mm DIN rail or chassis mounting with mounting bracket
Options	output current characteristics set for battery charging applications

Output Voltage and Current Ratings

MODEL	OUTPUT POWER max.	OUTPUT VOLTAGE		OUTPUT CURRENT max.
		SET VOLTAGE	Adj. RANGE	
TCL 024-105		5.1VDC	5.0 - 5.25V	4.0A
TCL 024-112	24 Watts	12VDC	12 - 16V	2.0A
TCL 024-124(C)		24VDC	24 - 28V	1.0A
TCL 060-112(C)		12VDC	12 - 15V	4.0A
TCL 060-124(C)	60 Watts	24VDC	24 - 28V	2.5A
TCL 060-148(C)		48VDC	48 - 56V	1.25A
TCL 120-112(C)	120 Watts	12VDC	12 - 15V	8.0A
TCL 120-124(C)		24VDC	24 - 28V	5.0A
TCL 240-124	240 Watts	24VDC	24 - 28V	10.0A

Without suffix: detachable screw terminals

With suffix C: spring clamps

Redundancy Module

MODEL	2 INPUTS	OUTPUT VOLTAGE	OUTPUT CURRENT max.
TCL-REM240	5-60VDC 144W max.	Vin - 0.9VDC	8.0A

Models with DC Input

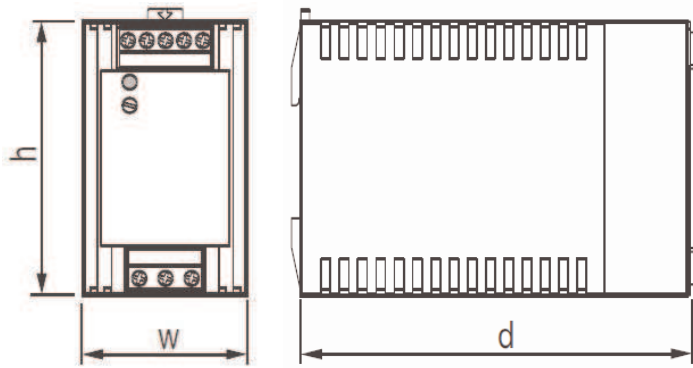
MODEL	INPUT V RANGE	OUTPUT VOLTAGE		OUTPUT CURRENT max.
		SET VOLTAGE	Adj. RANGE	
TCL 012-124 DC	9.5 - 18VDC	24VDC	24 - 28V	1.0A
TCL 024-105 DC		5VDC	5.0 - 5.25V	5.0A
TCL 024-112 DC	18 - 75VDC	12VDC	12 - 15V	2.0A
TCL 024-124 DC		24VDC	24 - 28V	1.0A
TCL 060-124 DC	18 - 75VDC	24VDC	24 - 28V	2.5A

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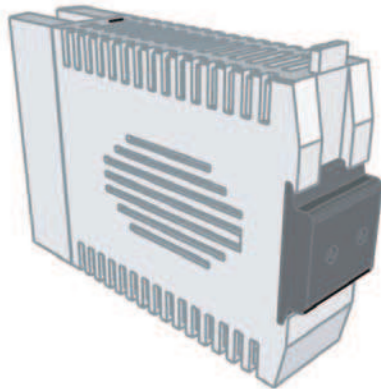


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Mechanical Details



TYPE	Width (W)	Height (H)	Depth (D)
TCL 012	27 (1.06)	75 (2.95)	100 (3.94)
TCL 024 & REM	27 (1.06)	75 (2.95)	100 (3.94)
TCL 060	45 (1.77)	75 (2.95)	100 (3.94)
TCL 120	85 (3.35)	75 (2.95)	100 (3.94)
TCL 240	85 (3.35)	110 (4.33)	125 (4.92)



Wall Mounting Bracket

The power supply modules can also be mounted on a chassis or wall by using the wall mounting bracket supplied with each power supply