

TCPR-1U

CONFIGURABLE POWER SYSTEM

TECTROL CONFIGURABLE 1U BULK POWER SYSTEM



The TECTROL TCPR-1U is a configurable bulk power system that can be easily customized to meet a wide range of power output requirements.

The TCPR-1U supports the deployment of up to 3 TCP1U front-end power supplies to provide up to 4500 watts of highly reliable DC power in a slim 1U profile.

Its slim profile and flexible feature set make the TCPR-1U an excellent choice for low profile racks and cabinets that demand high power density with minimum power supply intrusion.

The TCPR-1U offers both AC and DC redundancy to deliver reliable support for mission critical applications. Separate IEC inlets are provided to each module for AC supply redundancy. DC back up is achieved by configuring the TCP1R for N+1 module redundancy.

Hot swap capability is implemented via an integral backplane assembly that interconnects the power modules to the high current DC bus connection plates.

Optional digital interfaces such as I²C can be configured on the TCPR to meet application-specific needs.

FEATURES

- Up to 4500 Watt output power
- Low 1U profile provides high power density
- I²C EEPROM Bus option
- Triple IEC inlets
- 25- and 15-pin D-Sub interface connectors
- Parallel (non redundant) or N+1 redundant operation
- Active current share between racks (with optional cables)
- Optional slot blanking plates and mounting bracket positions available

AGENCY COMPLIANCE

- UL/cUL Approval
- TUV Approval
- CE Mark (to LVD requirements of EN 60950)
- Harmonic Compliance to EN 61000-3-2 (Class A & D limits)

EMISSIONS AND IMMUNITIES

- EN 55022 Class B Emissions
- EN 61000-3-2 Class D Harmonic Compliance
- EN 61000-4 Compliance

MAX OUTPUT POWER	OUTPUT (Volts)	OUTPUT (Amps)	INPUT (VAC)	MODEL NUMBER
4500 W	48	94	200 – 240	TCPR-1U + TCP1U-1500
3600 W	48	75	100 – 240	TCPR-1U + TCP1U-1200
3600 W	24	150	100 – 240	TCPR-1U + TCP1U-1200

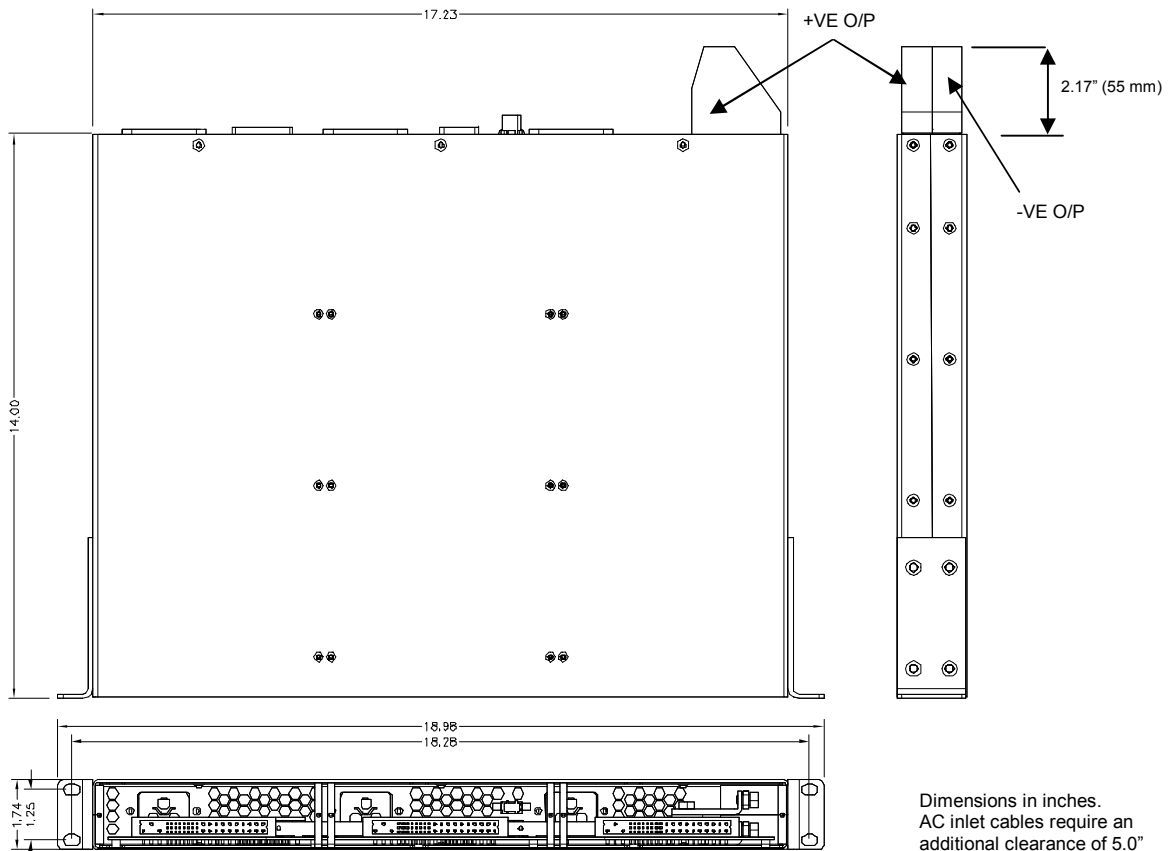
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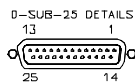
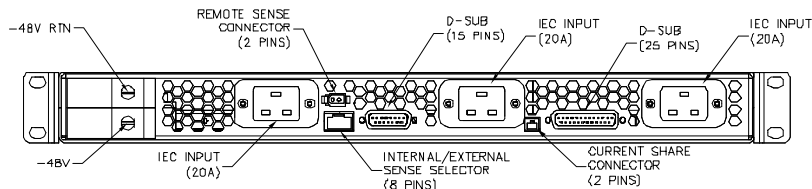
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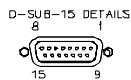
MECHANICAL OUTLINE



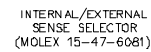
Dimensions in inches.
AC inlet cables require an additional clearance of 5.0" to accommodate cable bending radius



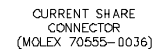
PIN	FUNCTION	PIN	FUNCTION
1	DC_OK_2	14	REMOTE_ON_3
2	NOT USED	15	REMOTE_ON_2
3	DC_OK_1	16	REMOTE_ON_1
4	SIGNAL RETURN	17	PS PRESENT_3
5	NOT USED	18	PS PRESENT_2
6	AC_FAIL_3	19	PS PRESENT_1
7	NOT USED	20	NOT USED
8	AC_FAIL_2	21	NOT USED
9	NOT USED	22	NOT USED
10	AC_FAIL_1	23	NOT USED
11	EEPROM A0	24	DC_OK_3
12	EEPROM DATA	25	NOT USED
13	EEPROM CLOCK		



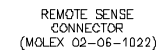
PIN	FUNCTION
1	48V +VE OUTPUT
2	NOT USED
3	NOT USED
4	NOT USED
5	NOT USED
6	VOLTAGE_MARGIN_1
7	VOLTAGE_MARGIN_2
8	VOLTAGE_MARGIN_3
9	48 -VE OUTPUT
10	NOT USED
11	NOT USED
12	NOT USED
13	CURRENT_MONITOR_3
14	CURRENT_MONITOR_2
15	CURRENT_MONITOR_1



PIN	FUNCTION
1	48V -VE OUTPUT
2	NOT USED
3	NOT USED
4	48V +VE OUTPUT
5	48V -VE SENSE
6	NOT USED
7	NOT USED
8	48V +VE SENSE



PIN	FUNCTION
1	48V -VE OUTPUT
2	CURRENT SHARE



PIN	FUNCTION
1	48V +VE SENSE
2	48V -VE SENSE