



- 2U high
- Up to 22,500W in 19" rack
- Hotswap capable

Key Market Segments & Applications

Power for Distributed Power Architecture
Factory Automation

TX Series

2500W to 7500W Front End Power Supplies

TX Features and Benefits

Features

- ◆ 2U high
- ◆ Hotswap capable
- ◆ High efficiency
- ◆ Full array of signals

Benefits

- ◆ Utilises less cabinet space
- ◆ Suitable for N+1 redundancy
- ◆ Higher density
- ◆ Easier system monitoring

Specifications

MODEL		TX250024	TX375024	TX500048	TX750048
ITEMS		24V Nominal		48V Nominal	
Output Voltage Range	VDC	21-28		42-56	
Total Regulation	%	±1%			
Output Current	A(max)	100	150	100	150
Current limit (1)	A	105	155	110	155
Short Circuit Current	rms A	35	50	35	50
Output Noise	mV	150mV peak to peak (10kHz to 20MHz)			
Output Rise Time	ms	100-400 ms			
Dynamic Response	%	3% in 10ms for a 10-100% load change			
Overvoltage Protection(1)	VDC	27-30		54-60	
Load Sharing	%	±5% of full load			
Remote Sense	V	Compensates for 1V total cable drop (stand alone unit only)			
i ² C Programming	-	Set output Volt, Monitors AC present, Converter OK, Thermal Profile, Fan fail			
Signals (opto isolated)	(6)-	AC Fail, Module Alarm, Temp Alarm			
Remote On/Off (5)	V	Shuts down outputs by applying 3.3 to 5V			
Margining	V	Applying 0-5V raises output voltage 0-10V			
Auxiliary Output (4)	-	12V@500mA			12V@2A
AC Input	VAC	180-264 (200-277 for TX500048)			
Input Frequency	Hz	47-63			
Power Factor	-	0.99 typ. @ 230VAC, full load, meets EN61000-3-2			
Inrush Current (2)	A	30 amps peak			
Efficiency (at 230VAC)	%	90	90	92	92
Immunity	-	EN61000-4-2,-3,-4,-5,-6,-8,-11			
EMC (conducted and radiated)	-	EN55022, Level B, FCC Class B			
Operating Temperature	°C	-40 to 65 (full power)			-40 to 65 (3)
Storage Temperature	°C	-40 to 85			
Humidity	%	5 to 95 (non-condensing)			
Altitude	ft	-200 to 8000			
Shock	G	IEC68-2-27, Mil-STD-810E, 20G			
Vibration	Hz	IEC68-2-64 (random) 20-2000Hz, 30 minutes			
Safety Agency	-	UL60950, EN60950, CE Mark			
Size (L x W x H)	mm	405 x 132 x 82 (stand alone), 534 x 410 x 89 (THR3 Rack)			
Weight	Kg	Stand alone unit 6.75kg, Rack 5.4kg			
Warranty	-	2 Years			

1 Adjustable via i²C or through Lambda Network Interface Card

2 Excludes Xcaps in the EMC input filter

3 TX750048 derate 2%/°C above 50°C to 65°C

4 Operates independent of main DC output and is referenced to (-)Vout

5 Either stand alone unit or entire rack

6 All three signals share a common return - logic ground

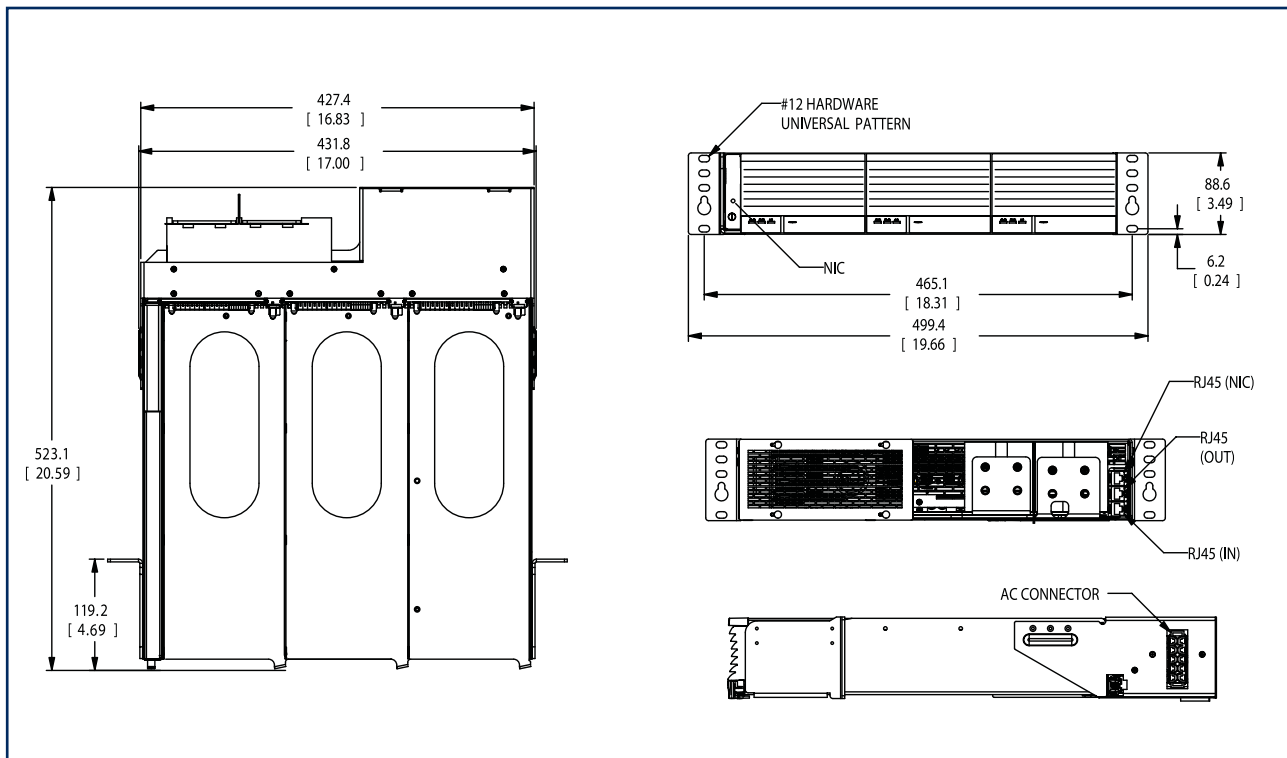
Model Selector

Model	Output Voltage	Output Current	Maximum Power
TX250024	24V	100A	2400W
TX375024	24V	150A	3600W
TX500048	48V	100A	4800W
TX750048	48V	150A	7200W
TXR3	19" Rack holds up to 3 TX Modules		
TXRBP	Blanking panel for one module slot		

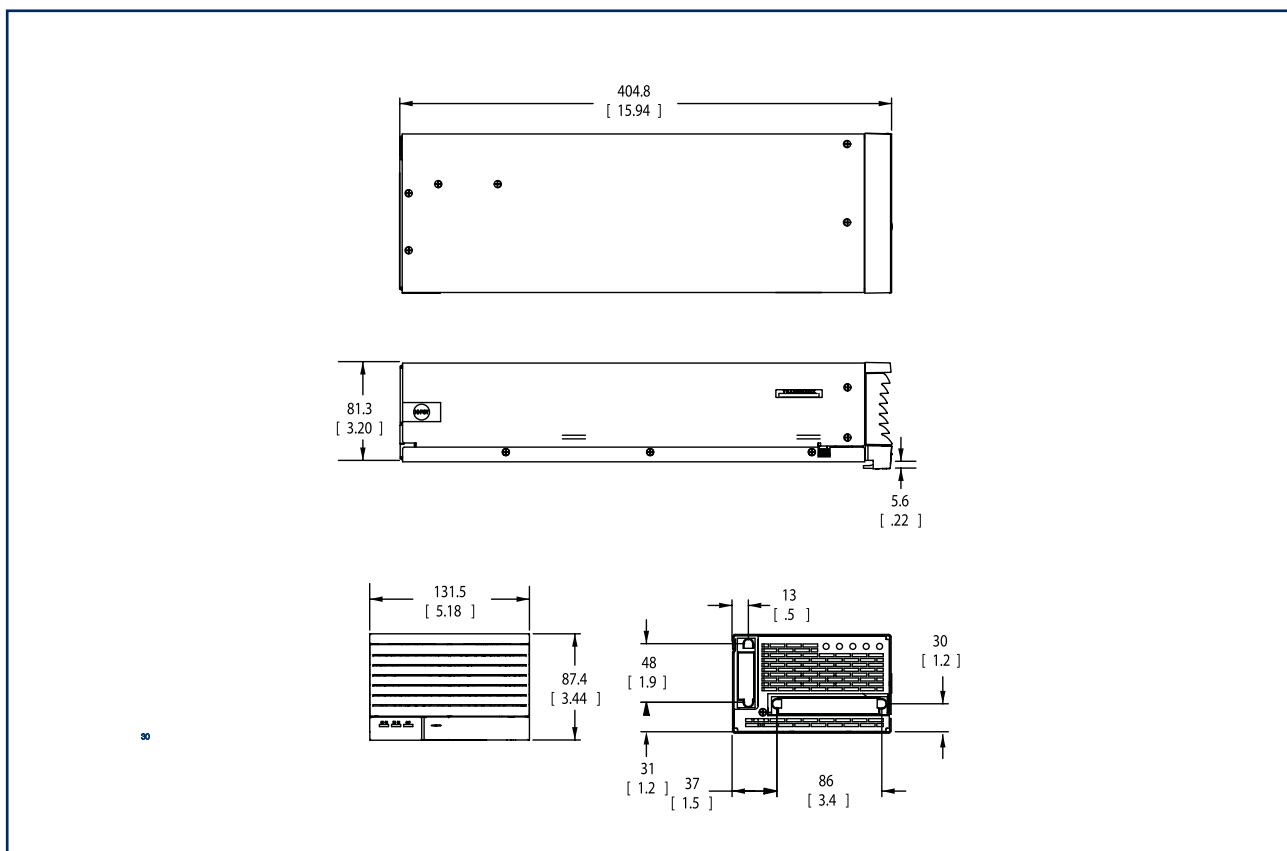
Connector Pinout

PIN	Description	PIN	Description
10	OPEN	20	MODULE_PRESENT
9	OPEN	19	OPEN
8	MODULE_AC_FAIL_2	18	MODULE_ALARM_2
7	MODULE_AC_FAIL_1	17	MODULE_ALARM_1
6	MODULE_AC_FAIL_0	16	MODULE_ALARM_0
5	MODULE_DISABLE	15	THERMAL_FAIL
4	LOGIC_GRND	14	OPEN
3	SDA	13	V_MARGIN
2	SCL	12	I_SHARE
1	SHELF_BIAS	11	Vmain_2
Note:	PIN 10 Top Left	PIN 20 Top Right	

TX Rack Outline Drawing



TX Outline Drawing



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