



- 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		TX375024	TX500048	TX7500W48
ITEMS		24V Nominal	48V Nominal	
Output Voltage Range	VDC	21-28.5	42-56	
Total Regulation	%	±1%		
Output Current	A(max)	150	100	150
Current limit (1)	A	155	110	155
Short Circuit Current	rms A	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) (5)	-	AC Fail, Module Alarm, Temp Alarm		
Remote On/Off	V	Shuts down outputs by applying 3.3 to 5V		
Auxiliary Output		12V@200mA		
AC Input	VAC	180-264	180-305	
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	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	-	UL60950-1, EN60950-1, 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 TX7500W48 derate 2%/°C above 50°C to 65°C

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

5 All three signals share a common return - logic ground

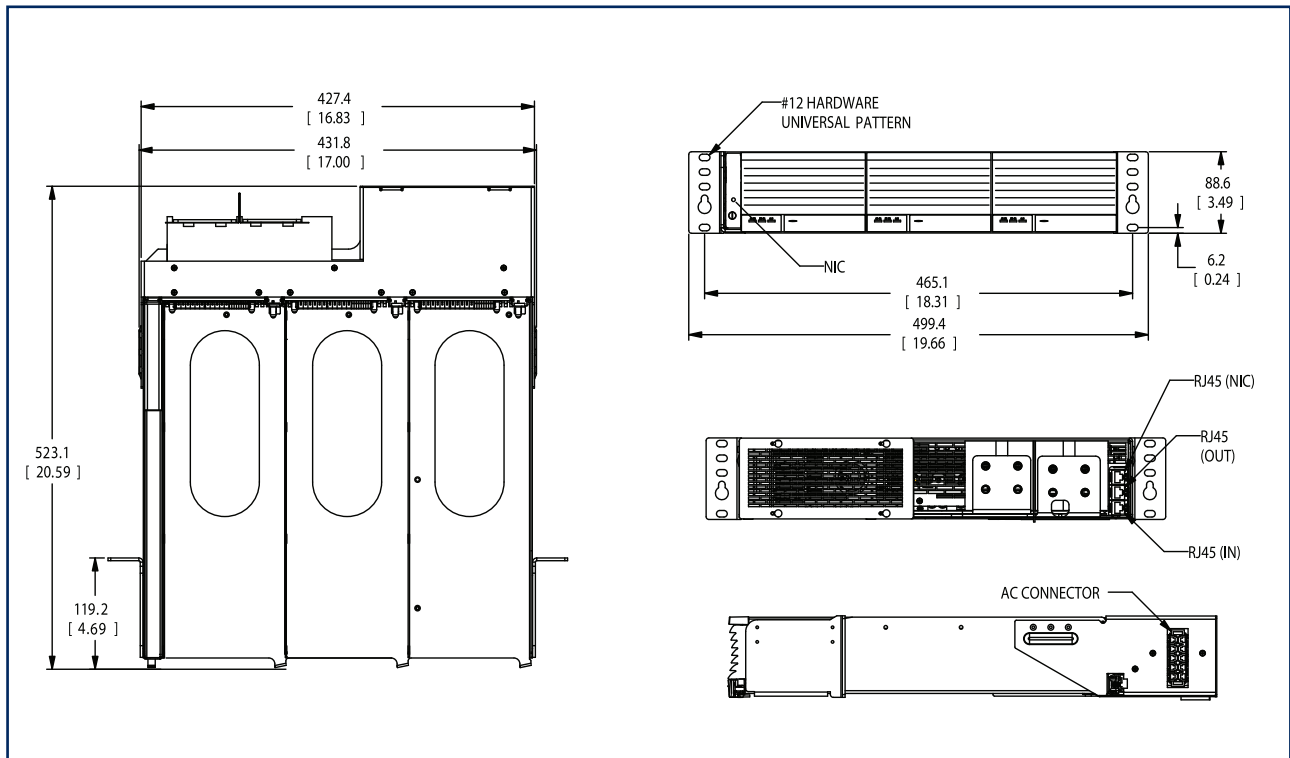
Model Selector

Model	Output Voltage	Output Current	Maximum Power
TX375024	24V	150A	3600W
TX500048	48V	100A	4800W
TX7500W48	48V	150A	7200W
TXR3	19" Rack holds up to 3 TX Modules (Individual AC Feed)		
TXR3025	19" Rack with 3 Phase DELTA Input		
TXR3026	19" Rack with 3 Phase WYE Input		
TXRBP	Blanking panel for one module slot		
TLCK-232	RS232 Communications Kit		

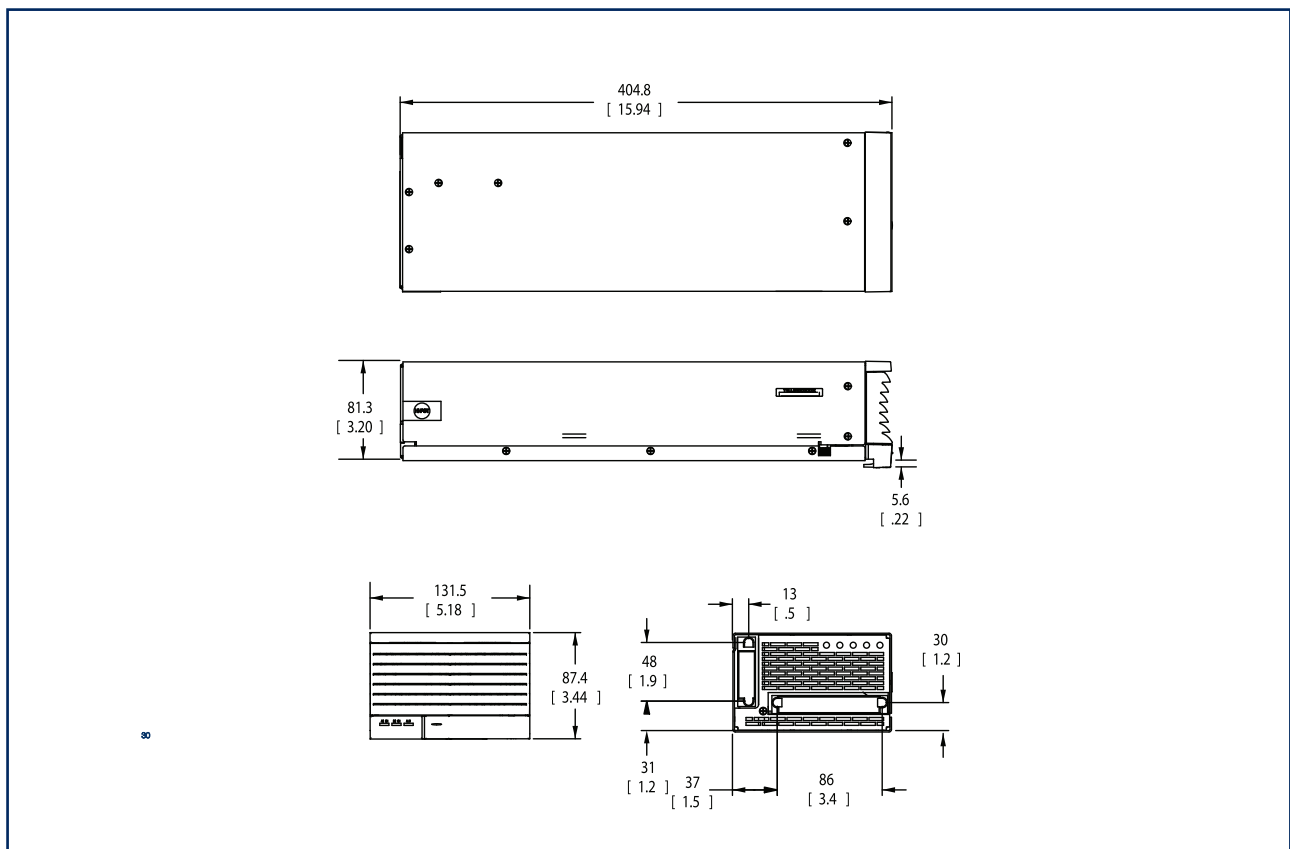
Connector Pinout

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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