

PCX500E-AC Series Digital Electricity™ Transmitter, 12 kW, AC Input



The PCX500E-AC Transmitter is a component in a Digital Electricity line powering system. When paired with a VoltServer receiver unit, a Digital Electricity (DE) system is formed. If a fault occurs on the DE line between the transmitter and receiver (such as a person contacting the conductors or a loose connection), power is disconnected, preventing fire, equipment damage, and personal injury. The PCX500E-AC is a **listed product**, certified to safety and EMC standards by a **Nationally Recognized Testing Laboratory**.

PCX500E-AC Transmitter Features

- + 208-277 Vac input
- + Plug or terminal block options
- + 24 Line Power Card Slots, 600 W ea.
- + 9 kW with N+1 redundancy
- + 12 kW without redundancy
- + 2U, 19 or 23 in rack compatible

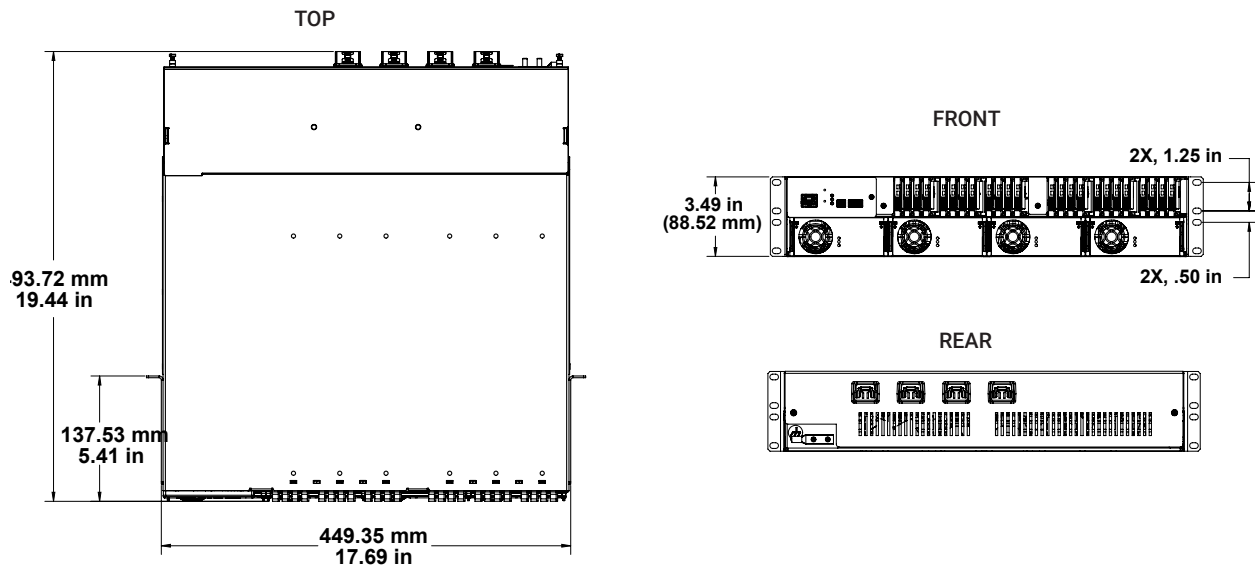
Digital Electricity™ is a Limited Power Source per UL/CSA/IEC 62368-1 suitable for supplying a Class 2 circuit under NEC Art. 725 and CEC Rule 16-200 (Note: Always follow local codes).

TYPE	PARAMETER	SPECIFICATION	NOTES
Input	Voltage	100 - 277 Vac	For full power operation, input voltage must be 208 Vac or greater
	Max Current per Shelf	16 A rms per power module	Minimum circuit breaker size is 20 A per input connection
Output	Voltage	315-350 Vdc (336 Vdc Nominal)	Digital Electricity output
	Total Power per shelf	Up to 12 kW	
	Number of Output Channels	Up to 24 Transmitter Cards	
	Max Current per Channel	Up to 3.0 A	Use design rules for calculating delivered power
	Max Distance	Contact VoltServer	
	Cable Capacitance	20-40 pF/ft (60-120 pF/m)	
	Environment	Access Location	Operator Accessible
	Operating Temperature	-20 °C (-4 °F) to 50 °C (122 °F)	Requires operation in a conditioned environment to ensure reliable operation
	Altitude	Up to 2000 m	
	Humidity	5 to 95% Non-condensing	
Mechanical	Dimensions	[See page 2]	Fits 19" (482.6 mm) racks
	Weight	43 lbs (19.55 kg)	Fully populated
	Acoustic Noise	< 40 dBA @ Tambient < 25 °C < 58 dBA @ Tambient > 40 °C	At nominal input and full load
Approvals	Safety	UL/IEC/CSA 62368-1	
	EMC	FCC Part 15 Subpart B Class A ICES-003 Class A EN 55032 (CISPR 32) Class A EN 300 386, EN 50121-4	
	Others	CE, UKCA, RoHS, REACH, WEEE	
Communication/Signals	Ethernet	RJ45, 10/100 Mbps	
	Dry Contact Alarm Output	1x Normally Open (NO) 1x Normally Closed (NC)	Remote monitoring and control via web GUI, SNMP v2c Can support alarm circuitry with maximum steady state current of 500 mA at 25 °C.
	Dry Contact Alarm Input	1x NO or NC	
Box Contents	Included Accessories	TX Chassis, 1x PM500-AC	Software selectable, NO default

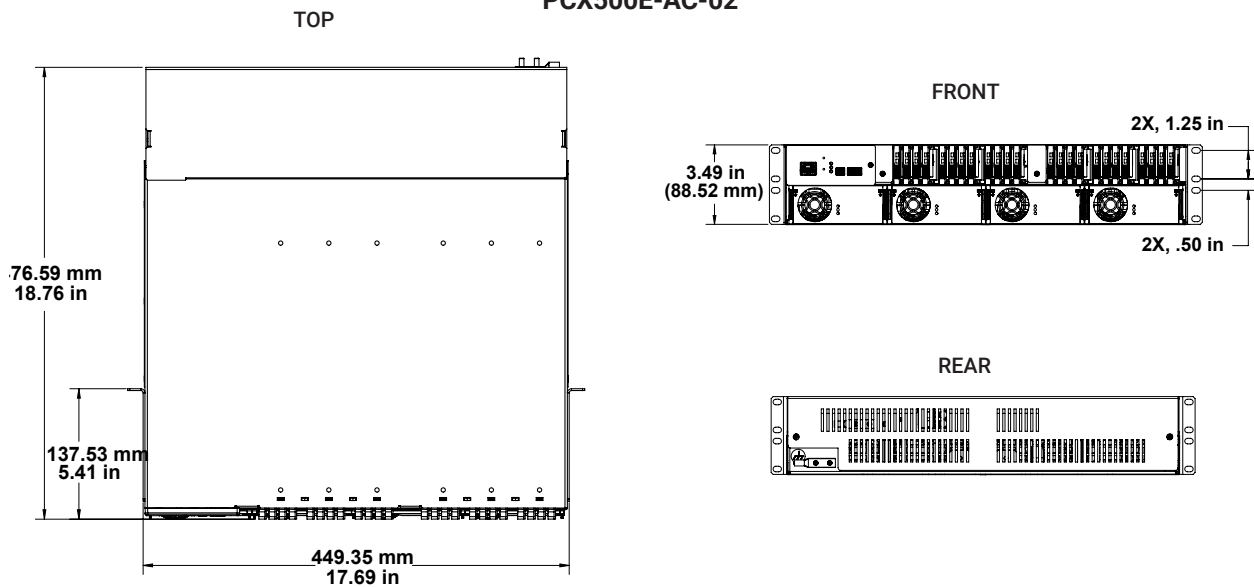
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Detailed Dimensions

PCX500E-AC-01



PCX500E-AC-02



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Rev N - 240306