

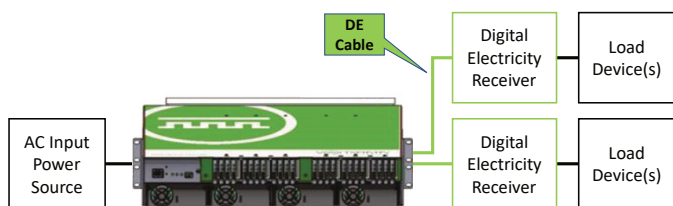
The PCX500E-AC Transmitter is a component in a Digital Electricity™ line powering system. When paired with a VoltServer receiver unit, a Digital Electricity™ (DE) system is formed (see diagram). If a fault occurs on the DE line between the transmitter and receiver (such as a person contacting the conductors 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-01 Front View



PCX500E-AC-01 Rear View



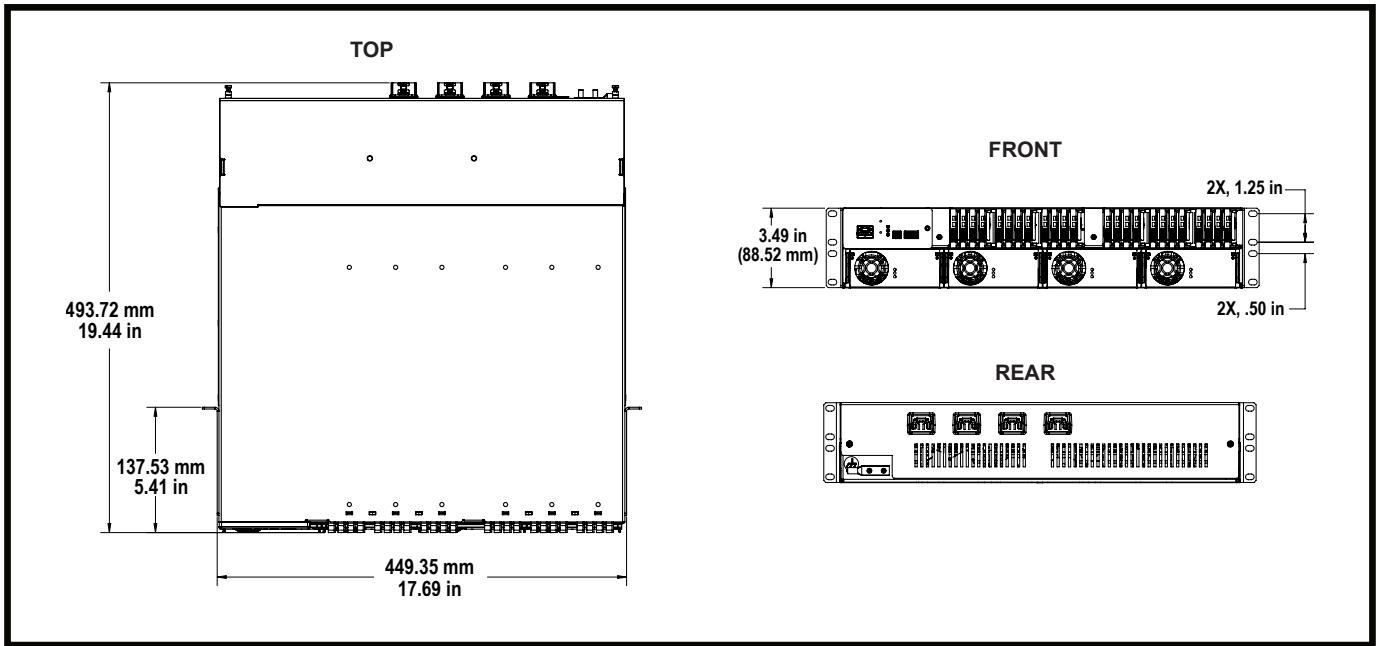
Digital Electricity™ is a **Limited Power Source** per IEC/UL/CAN 62368-1 suitable for supplying a **Class 2 circuit** under **NEC Art. 725** and **CEC Rule 16-200** (Note: Always follow local codes).

Specifications

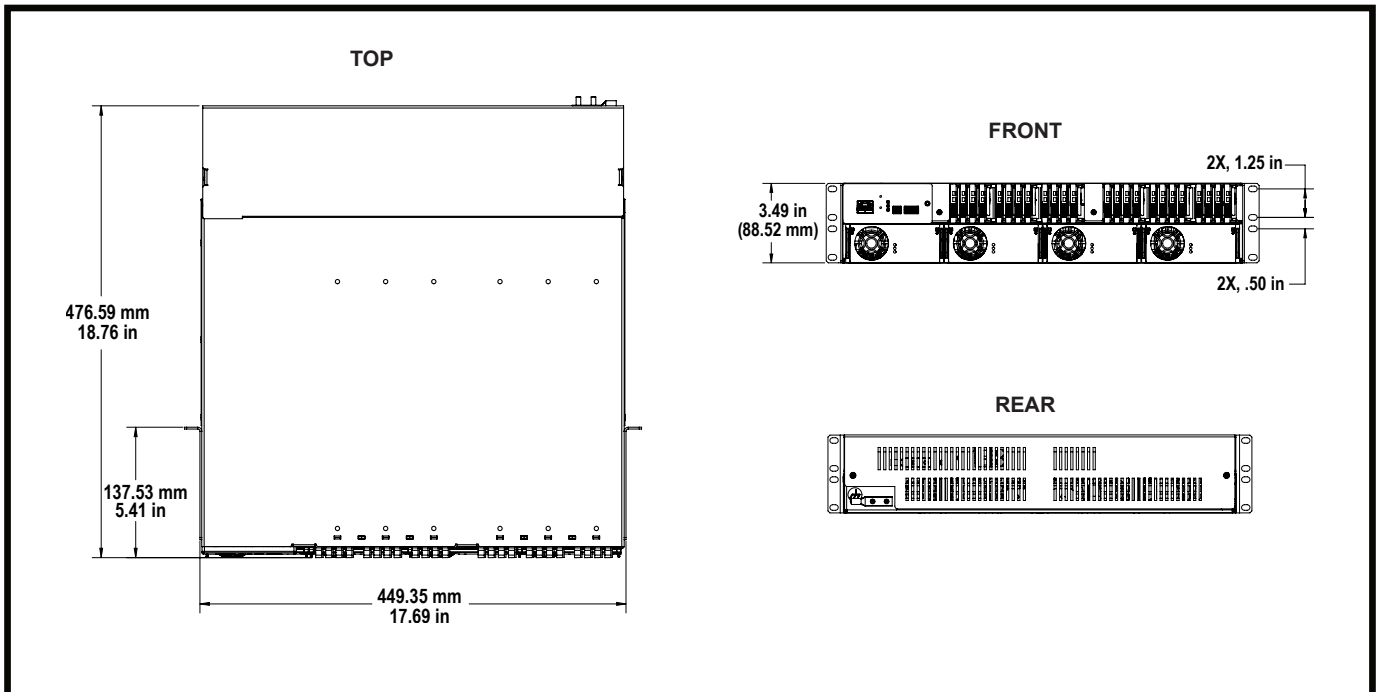
TYPE	PARAMETER	SPECIFICATION	NOTES
Input	Voltage	110 - 277 Vac	For full power operation, input voltage must be 208 Vac or greater
	Max Current per Shelf	16 A RMS per power module	Minimum circuit breaker size is 20 A per input connection
Output	Voltage	315-350 Vdc (336 Vdc Nominal)	Digital Electricity 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 (60-120pF/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 2000m	
Humidity		5 to 95% Non-condensing	
Mechanical	Dimensions	[See page 2]	Fits 19" (482.6mm) racks
	Weight	43 lbs (19.55 kg)	Fully populated
Approvals	Acoustic Noise	< 40dBA @ T _{ambient} < 25 °C < 58dBA @ T _{ambient} > 40 °C	At nominal input and full load
	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	
Communication/ Signals	Others	CE, RoHS	
	Ethernet	RJ45, 10/100Mbps	Remote monitoring and control via web GUI, SNMP v2c
	Dry Contact Alarm Output	1x Normally Open (NO) 1x Normally Closed (NC)	Can support alarm circuitry with maximum steady state current of 500 mA at 25 °C.
Box Contents	Dry Contact Alarm Input		
	Hardware Kit	[See page 3]	

Detailed Dimensions

PCX500E-AC-01



PCX500E-AC-02



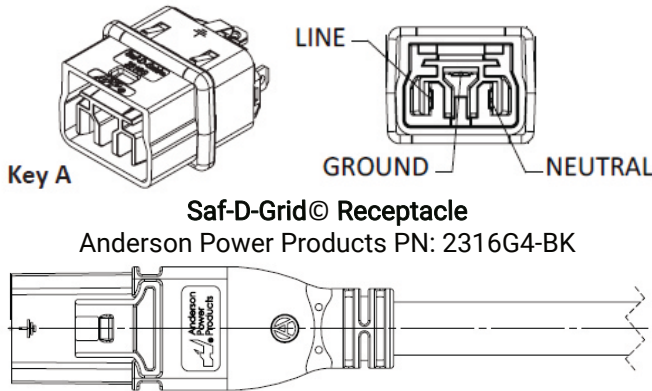
Rear Cover Options

The PCX500E-AC is available in two (2) versions. Both options have the same specifications defined on page 1.

PCX500E-AC-01: PLUG VERSION. Rear cover with four Anderson Saf-D-Grid® connectors. For installation using power cords.



PCX500E-AC-01 Rear View



Saf-D-Grid® Receptacle

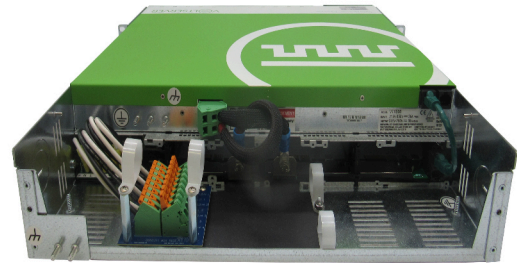
Anderson Power Products PN: 2316G4-BK

Saf-D-Grid® Plug Mating Cable
Saf-D-Grid 300 Key "A"

PCX500E-AC-02: CONDUIT VERSION. Rear cover with conduit knock-outs. For conduit installations performed by a licensed electrician. For 1in to 1.5in conduit.



PCX500E-AC-02 Rear View



Rear View (cover removed)

PCX500E-AC-01 Included Parts List

- 1x PCX500E-AC-01 transmitter chassis
- 1x MGT500E management card
- 1x PM500-AC power module
- 1x Dry Contact Input Connector (MFN: 1745894)
- 1x Alarm Relay Output Connector (MFN: 1952283)
- 2x 10-32 18-8 Stainless Lock Nuts
- 1x 2 Hole Terminal Lug, #6 AWG #10 stud, .75" spacing (MFN: YAZV6C2TC10FX)

Input Power Cables (Sold Separately)

- **CABLE-PWR-SAFD-C20P:** Power cable, Saf-D-Grid 300 Key "A" plug to IEC C20 plug, 8ft long
- **CABLE-PWR-SAFD-L620P:** Power cable, Saf-D-Grid 300 Key "A" plug to NEMA 6-20 plug, 8ft long
- **CABLE-PWR-SAFD-L720P:** Power cable, Saf-D-Grid 300 Key "A" plug to NEMA 7-20 plug, 8ft long

PCX500E-AC-02 Included Parts List

- 1x PCX500E-AC-02 transmitter chassis
- 1x MGT500E management card
- 1x PM500-AC power module
- 1x Dry Contact Input Connector (MFN: 1745894)
- 1x Alarm Relay Output Connector (MFN: 1952283)
- 2x 10-32 18-8 Stainless Lock Nuts
- 1x 2 Hole Terminal Lug, #6 AWG #10 stud, .75" spacing (MFN: YAZV6C2TC10FX)

Components and Accessories (For both models, Sold Separately)

- **TX550-01:** Transmitter Cards (Required)
- **PM500-AC:** Additional Power Modules
- **CBL-TX-001:** pre-terminated cable, TX550-01 to Phoenix Connector, 10Ft, 20AWG
- **TRMBLK-01-19-8:** Transmitter Terminal Blocks & DIN Rail Populated with 8x8 Pair Positions per 19" DIN Rail



WARNING! AVERTISSEMENT!

Ensure that the unit is de-energized before contacting any exposed conductors. Up to 350 Vdc is present inside the unit while running.

Assurez-vous que l'appareil est mis hors tension avant de faire du contact avec des conducteurs nus. Jusqu'à 350 Vdc est présent à l'intérieur de l'appareil pendant le fonctionnement.

WARNING! AVERTISSEMENT!

The minimum wire gauge for use with VoltServer GEN2 Transmitters is 20 AWG copper conductors. Mutual conductor capacitance shall be no more that 40 pF per foot or 131.2 pF per meter.

Le calibre de fil minimum à utiliser avec les émetteurs VoltServer GEN2 est constitué de conducteurs en cuivre de 20 AWG. La capacité mutuelle des conducteurs ne doit pas dépasser 40 pF par pied ou 131 pF par mètre.

WARNING! AVERTISSEMENT!

VoltServer Receiver inputs are intended to be powered by VoltServer Transmitter products only.

Les produits du émetteurs VoltServer sont destinées à être alimentées uniquement par les produits récepteurs VoltServer.

WARNING! AVERTISSEMENT!

The voltage rating of the transmission wiring between VoltServer TX Transmitter and RX Receiver(s) must be a minimum of 400 Vrms.

La tension nominale du câblage de transmission entre l'émetteur VoltServer TX et le(s) récepteur(s) RX doit être 400 Vrms au minimum.

WARNING! AVERTISSEMENT!

This equipment is not suitable for use in locations where children are likely to be present.

Cet équipement ne convient pas à une utilisation dans des endroits où des enfants sont susceptibles d'être présents.

FCC CAUTION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAN ICES-003(A) / NMB-003(A)

Warranty Statement

There are no serviceable parts within the PCX500E-AC or its modules (MGT500E and PM500-DC). Opening or modifying these products will void the warranty.

Symbols



Hazardous Voltages present when energized. Do not open the unit while it is energized.



This symbol indicates the protective earth terminal for the device. See “Grounding Requirements” section.



This symbol indicates the supplementary ground terminal for the device. See “Grounding Requirements” section.

NOTE

Input and Output wiring and overcurrent protection must be installed in accordance with all local and national electric codes and requirements.

NOTE

After making/terminating input and output connections, ensure that there are no bare contacts or conductors. Conductors must be properly insulated from contact.

NOTE

Readily accessible disconnect devices, such as a breaker, must be incorporated external to the PCX500E-AC for each source.

NOTE

For PCX500E-AC-01, the plug/appliance coupler functions as a disconnect device. Ensure that the AC input socket/outlet is readily accessible.

Installation Instructions

Physical Installation

The PCX500E-AC transmitters are designed to be rack-mounted in a 19" rack using provided rack-mount brackets. Use 19" to 23" rack mounting adapters, as required. If installing multiple transmitters, space them a minimum of ½ RU apart, with preferred spacing of 1 RU. Rack-mount hardware (rack screws, nuts, clips, etc.) are not included.

Input Power Source

The PCX500E-AC accepts 100-277. For full power capability, greater than 208 VAC is required. **The maximum (and recommended) circuit breaker size for each AC input connection is 20 A.**

Input Power Connections and Wiring

Caution: Ensure source power is disconnected/de-energized prior to making connections.

The means of input power connection varies depending on the product and rear cover option. The PCX500E-AC requires one connection to the AC power mains per each PM500-AC module used in the design. The AC input connections are single phase or "bi-phase" connections consisting of L1 and L2 or Line and Neutral connections.

PCX500E-AC-01 (Plug Version)

For branch circuits up to 250VAC, Anderson Power SDG300 (key: A) to IEC C20 cable may also be used.
VoltServer P/N: CABLE-PWR-SAFD-C20P.

For branch circuit input voltages up to 250VAC, Anderson Power SDG300 Receptacle Key "A" to NEMA L6-20 input cables should be used.

VoltServer P/N: CABLE-PWR-SAFD-L620P.

For branch circuit input voltages up to 277VAC, Anderson Power SDG300 (key: A) to NEMA L7-20 input cable should be used.

VoltServer P/N: CABLE-PWR-SAFD-L720P.

Note: This is a non-standard part and may have extended lead times. Contact your VoltServer sales team.

Anderson SDG300A Key "A" to SDG300A Key "A" may be used as an appliance coupling cable.

VoltServer P/N: CABLE-PWR-SAFD-SAFD.

Note: This is a non-standard part and may have extended lead times. Contact your VoltServer sales team.

For branch circuit input voltages less than 125 Vac and input current less than 11.25 A, Anderson Power SDG300A to NEMA 5-15p input cables may be used.

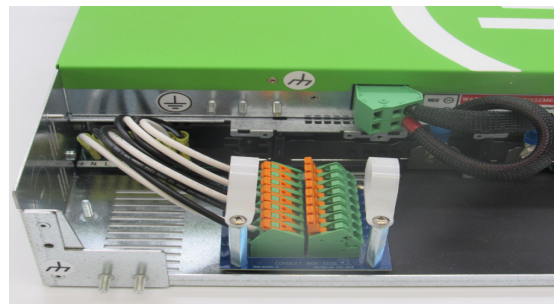
Note: VoltServer recommends using 208 Vac or greater for all installations. Use of 120 Vac should only be used for small demo or test systems. Contact your VoltServer sales representative for more information.

PCX500E-AC-02 (Conduit Version)

The conduit option features sheet metal knockouts for common conduit sizes (1" (25.4mm) and 1.25" (31.75mm). There are knockouts located on both the right and left side of the unit. Consult local and national electric codes for wire sizing. A terminal block is provided for easy wiring of each input circuit.

To terminate input wiring:

1. Determine Correct Input Wire Gauge - Minimum wire gauge for each input connection is 12 AWG. Consult the national electric code for proper wire sizing.
2. Strip Wires - Strip wires by approximately 1/2" before inserting into the terminal blocks.
3. Secure Wires Into Terminal Block - Lift the orange tabs on the terminal blocks, inserting the stripped wires into the terminal block, and then press the orange tabs back down until the tab is flush with the top of the terminal block. The orange lever should make an audible click when fully locked in place. Verify the integrity of the connections by pulling gently on the wiring.



The image above shows the PCX500E-AC-02 (conduit version) terminal block PCB.

Installation Instructions (cont.)

Output Power Connections and Wiring

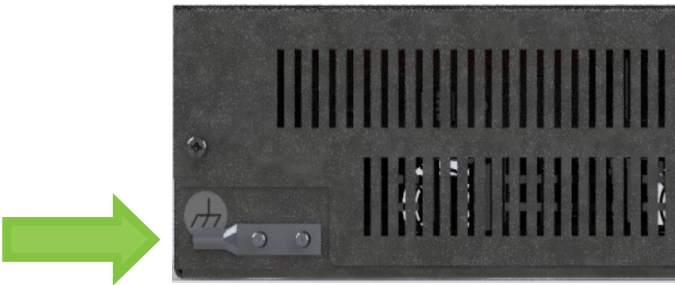
Each Digital Electricity™ TX550 card has a four pin output connector (Phoenix Contact p/n:1778858). 20 AWG output connectors are recommended for output connections to terminal blocks. Larger conductors are recommended for long cable runs. VoltServer pre-terminated output cables (CBL-TX-001) are recommended. Max length of output cable is 10ft.

Protective Earth Requirements

All PCX500E-AC transmitter units **must** have a protective earth grounding connection to a recognized earth ground connection for operational safety. The protective earth ground connection is bonded to the rear of the PCX500E-AC chassis using the double hole lug and self-locking nuts provided in the hardware kit for this purpose. The equipment ground conductors from AC mains power sources are separate connections and described in the following sections.

PCX500E-AC-01

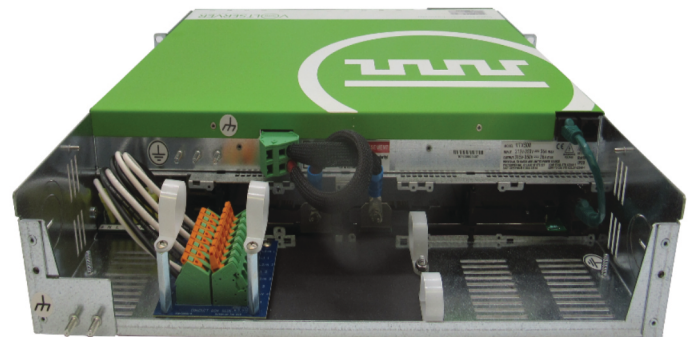
The PCX500E-AC-01 equipment ground conductor is provided via the corded 3-wire plug-in connections. The socket-outlet of the power source must provide a properly mating connection to the ground conductor which originates from the AC mains power source panel.



PCX500E-AC-01 Rear View

PCX500E-AC-02

The PCX500E-AC-02 equipment ground conductor is provided via the conduit entry point along with the current carrying conductors from the AC mains power source panel. Unless otherwise mandated by local code, equipment ground conductor sizing is dictated by the overcurrent device protecting the circuit, thus 12 AWG minimum wire size for 20 A rated circuit breakers. When using a single ground conductor for multiple circuits in the same conduit, the ground conductor is sized for the largest overcurrent device protecting conductors in the conduit. Secure the equipment ground conductor(s) to the grounding stud on the floor of the enclosure using the 10-32 lock-nut provided. Torque nut to 32 in-lbs.



PCX500E-AC-02 Rear View with cover removed

CAN-bus Ethernet style Cable

The top and bottom of the rear chassis for both models comes connected via a small Ethernet style CAN bus cable. This allows communication between the MGT500E Management Module and the PM500-AC Power Modules. This connection on the PCX500-AC-01 model is enclosed within the chassis and requires no setup. When configuring the wiring for the PCX500-AC-02 (conduit version), ensure this connection remains uninterrupted prior to closing the conduit box.

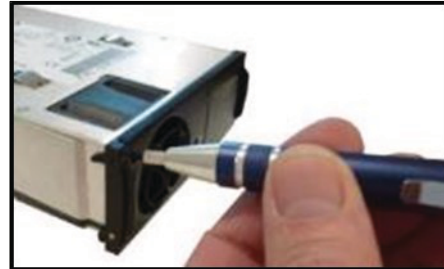


Installation Instructions (cont.)

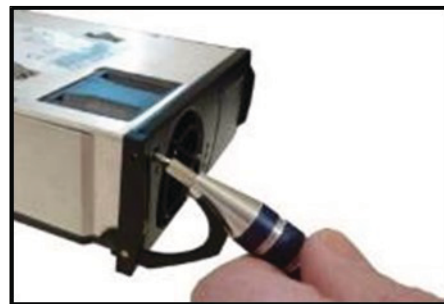
PM500-AC Power Module Installation

Up to four PM500-AC modules may be installed in the PCX500E-AC Transmitter. PM500-AC modules require their respective slots to be wired in order to function. All PM500 Power Modules may be “hot swapped” for in-service maintenance purposes.

- Place a small screwdriver under the release button in the windows located in the upper corners of the PM500 module



- Pull the screwdriver downwards to release the PM500 extraction handle, repeat on opposite side



- Push PM500 module into a bay of the transmitter shelf until it firmly seats in the connector



- Press extraction levers upward until they fully seat and lock into place. The PM500 module is now locked into place. Repeat the above steps for each PM500 module to be populated. To remove a PM500 module, perform the above steps to release the extraction handles, and pull the PM500 from the transmitter using the handles

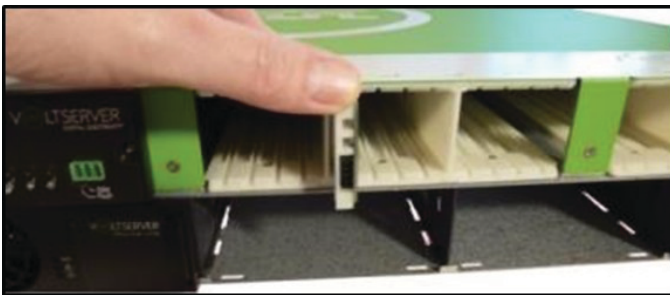


Installation Instructions (cont.) TX550 Transmitter Card Installation

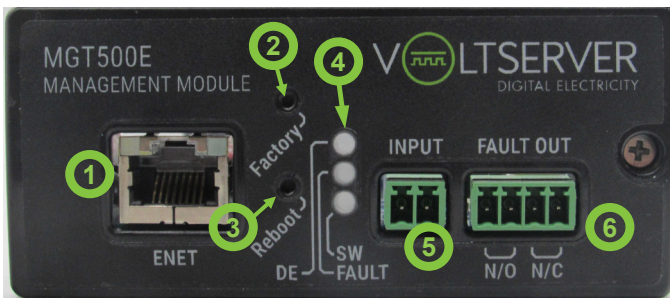
The transmitter shelf can accommodate up to 24 TX550 transmitter cards which drive a single pair (two conductors) to a receiver. VoltServer recommends the practice of using multiple pairs to drive a receiver for redundancy purposes. When driving multiple pairs to a VoltServer receiver, all TX550 transmitters driving those pairs **MUST** be from the same PCX500E-AC shelf and in adjacent slots.

TX550 Card Insertion

- Select the proper slot and slide TX550 card into the transmitter shelf
- Seat the card by pressing on the plastic faceplate until the card edge fingers seat in the backplane connector
- To remove the TX550 card, pull the card using the indentation on the top of the plastic faceplate
- TX550 cards may be hot-swapped as required



MGT500E Front Panel



The MGT500E management module provides software control and fault alerting capability for the PCX500E product. The features present on the front panel of the MGT500E are described here:

1 Ethernet Port

The management module provides the system with an Ethernet (IPv4/ IPv6) network interface. This allows the system to be connected to a local network for remote monitoring and management.

2 Factory Reset Button

Hold for 5 seconds to reset the software settings to factory defaults. The “SW” LED will blink blue while reset is in progress. Transmitter card status will not be affected during the reset process.

3 Software Reboot Button

Push momentarily for SW reboot. The software LED will turn off for about 30 seconds. Once LED has turned back on, software is accessible.

4 LED Indicators

LED information is provided on the last page of this quick start guide.

5 Dry Contact Input

The PCX500E-AC features a dry contact input enables the user’s system to trigger the PCX500E-AC policy software to enable features such as load shedding for battery back-up. **The dry contact input should be connected to either an open circuit or closed circuit. Do not apply voltage to the dry contact.** For details on this functionality, contact VoltServer support.

Maximum Cable Length	3 m
Accepted Wire Gauge	14-22 AWG
Default Operating Mode	Open Circuit

6 Alarm Relay Output

The alarm relay output port can be used to notify external devices of fault conditions on the PCX500E-AC.

Pin	Connection	Description
1	NC	Normally closed
2	GND1	Common for NC connection
3	GND2	Common for NO connection
4	NO	Normally open

Lighting Output Configuration

For detailed installation and configuration guide refer to the Digital Electricity Lighting System Install Guide

The PCX500E-AC-01-CEA lighting transmitters are designed to operate with DRX8 DE Receivers ONLY.

All DE outputs are disabled by default. Before enabling DE output channels, the **Max. Current Limit** and **Nominal Current Limit** parameters must be configured using the VoltServer Lighting GUI (contact VoltServer for GUI documentation).

Max Current Limit - Maximum current that can be handled by the LEDs in the application. The PCX500E-AC-01-CEA unit will never allow the current to exceed this value.

Nominal Current Limit - This is the current value corresponding to the maximum brightness of the LEDs (255 on a 0-255 scale). All dimming will be

Initial Power Up Configuration

1. All DE outputs are disabled by default.
2. Before enabling DE output channels, the **Max Current Limit** and **Nominal Current Limit** parameters **must** be configured using the VoltQ GUI or VoltServer Lighting API (contact VoltServer support for API documentation).
3. **Max Current Limit** – maximum current that can be handled by the LEDs in the application. The PCX500E-AC-01-CEA unit will never allow the current to exceed this value.
4. **Nominal Current Limit** – this is the current value corresponding to the maximum brightness of the LEDs (255 on a 0-255 scale). All dimming will be referenced to this value when using the Direct Duty Value control mode. Must be less than the Max Current Limit.
5. Max Current Limit and Nominal Current Limit may not exceed the maximum current value for a PCX500E-AC-01-CEA output channel (see Specifications table).

PCX500E-AC-01-CEA Web GUI - Lighting Menu

WARNING: Current limits must be set correctly for your light configuration. Improper settings can cause permanent damage to equipment. If you are unsure about correct values for these settings, contact VoltServer support.

Nominal Current Limit 1050 mA

Max Current Limit 1200 mA

Default Output State Restore last setpoint
Initial output state of each DE channel when the device powers on or is power cycled.

Enhanced Fault Tolerance

Output State Recovery

After the Initial Power Up Configuration process is complete and the absolute and operating max current values have been configured, the PCX500E-AC-01-CEA will save the last known state of each output channel and resume this state in the event of a power cycle.

Software Instructions

IP Discovery via Zeroconf

The IP address of a device on a local network may be determined using the device's hostname plus .local as the domain. The default hostname is printed on the unit label on the top of the device.

Absent any ethernet switch the device can be connected directly to a laptop/PC using an Ethernet patch cable, i.e. "crossover connection."

By default, the device hostname is "voltserv-XXXX" where XXXX is the last 4 characters of the device's MAC address. For example, if the device's MAC ends with :42:09, the default hostname will voltserv-4209.

Test network connectivity to the device by opening a command prompt and running ping [hostname].local

Software Web UI Login

Software configuration is performed via a web browser interface. Access the web interface by opening

http://[hostname].local or
http://[IP address]

in a supported browser. The factory-programmed password can be found on the unit label on the rear or side of the device.

The default username is "admin"

Refer to the unit label on the top of the device for the password.

IP Address & Password



```

Command Prompt
Microsoft Windows [Version 10.0.17134.590]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\IEUser>ping voltserv-4209.local

Pinging voltserv-4209 [192.168.8.184] with 32 bytes of data:
Reply from 192.168.8.184: bytes=32 time=2ms TTL=64
Reply from 192.168.8.184: bytes=32 time=4ms TTL=64
Reply from 192.168.8.184: bytes=32 time=12ms TTL=64

Ping statistics for 192.168.8.184:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 12ms, Average = 5ms

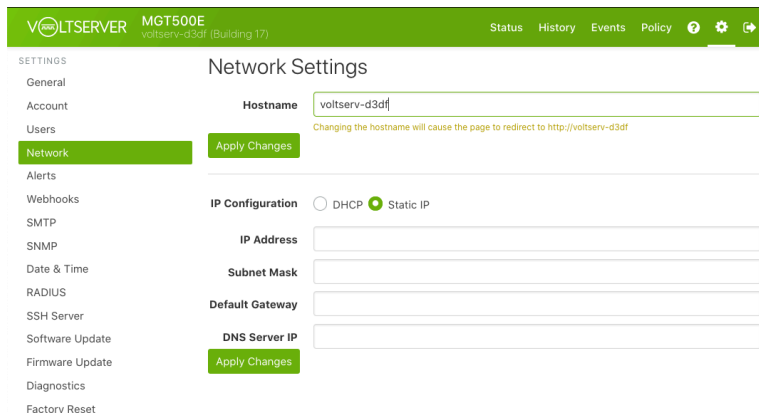
C:\Users\IEUser>
    
```



IP Configuration & Hostname

Hostname and static IPv4 address may be configured from the Network Settings page. Click "Apply Changes" to save new settings.

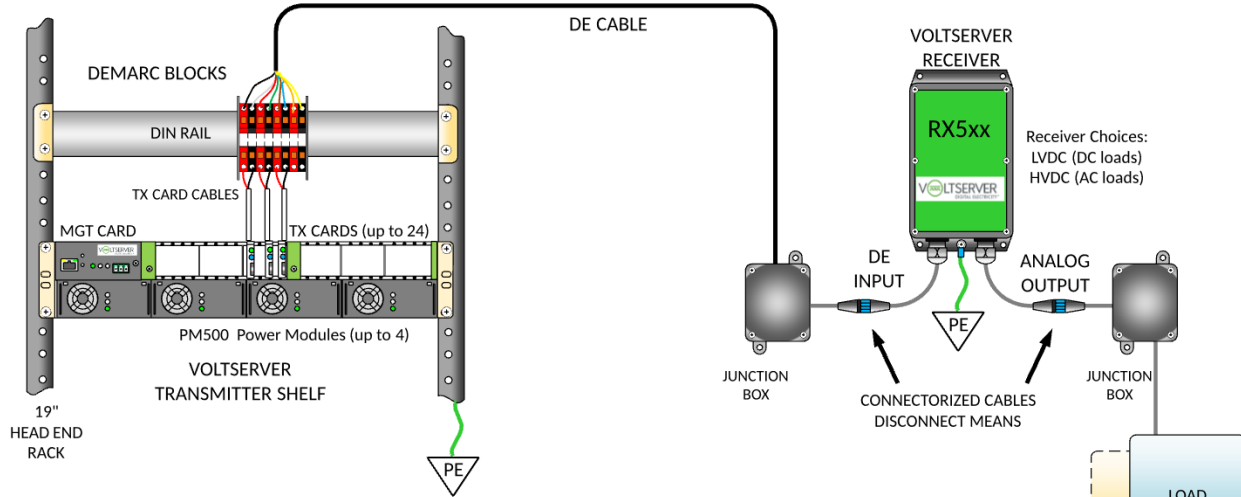
After network settings are saved, the browser will redirect to the new IP address or hostname after settings are applied. In most cases it will be necessary to login to the web UI again after the redirect.



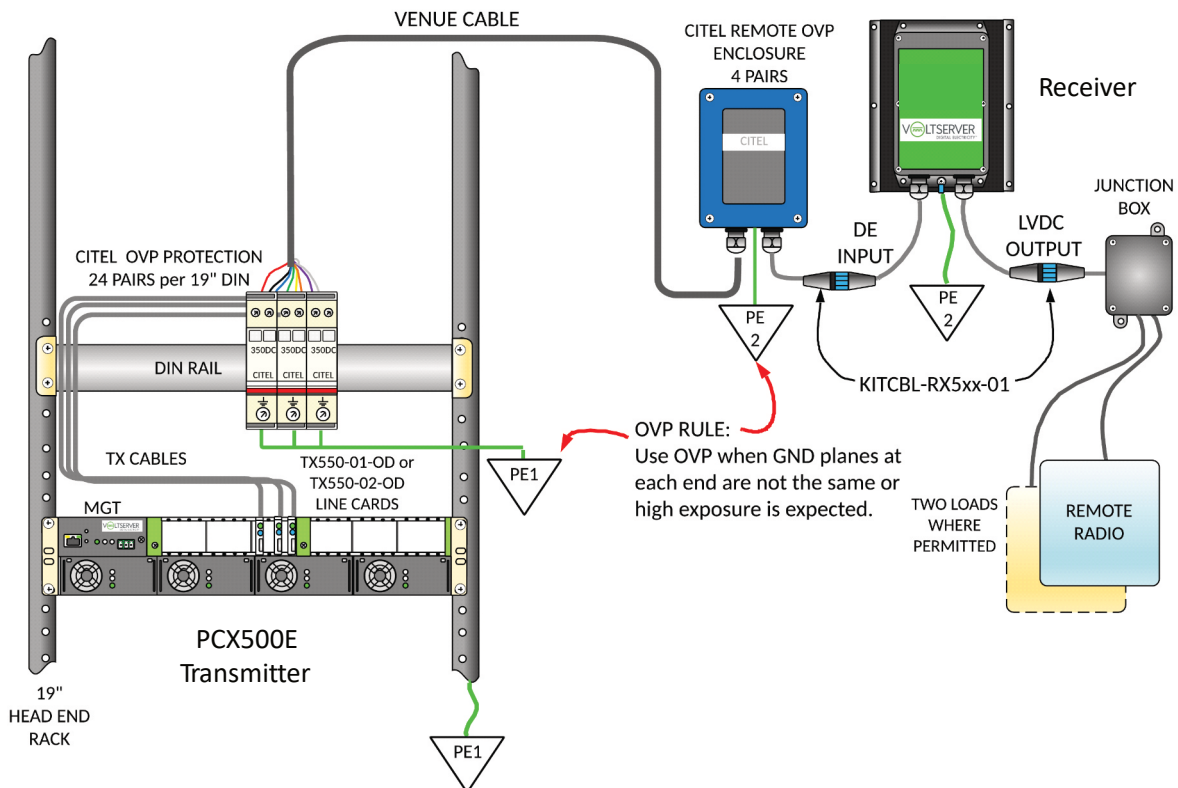
System Wiring Diagrams

For reference only, refer to venue package for exact installation details

Wiring Diagram without Overvoltage Protection (OVP)



Wiring Diagram with Overvoltage Protection (OVP)



OVP RULE:
Use OVP when GND planes at each end are not the same or high exposure is expected.

Management Module (MGT500E) LED Troubleshooting Guide

LED	COLOR / PATTERN	DURATION	MEANING
DE	Green - solid	Until reboot	Normal operation
DE	Red - solid	Until reboot	Transmitter Card fault
FAULT	Green - solid	Until reboot	Normal operation
FAULT	Red - solid	Until reboot	MGT500E Card fault
SW	Blue - 1 sec. period	5 seconds	Software power-on and pre-boot. Pushing the FACTORY button during this time will cause the device to boot into recovery mode
SW	Green - heartbeat	30 seconds	Software is booting
SW	Green - solid	Until reboot	Normal operation
SW	Blue - 0.5 sec. period	20 seconds	Factory reset in progress
SW	Blue - heartbeat	Until reboot	Software is in "Recovery Mode" - contact VoltServer
SW	Red - solid	Until reboot	Fault

Transmitter Card (TX550-01) LED Troubleshooting Guide

There are two status LED's on each TX550-01 Transmitter card located above the 4 pin output connector; the upper LED is dual color RED/GREEN while the lower LED is BLUE.

TX550 FAULTS	GRN/RED			FAULT CODE	{	Count RED flashes in between GRN flashes – See Table below
	BLUE			BRIEF BLINK		

Normal Status Codes

Upper LED	Lower LED	STATUS
OFF	Blue Blink	Start up state; booting up
Green Blink	OFF	Pre-Charge state
Solid Green	Blue Blink - brief	Normal state
OFF	Blue Blink - slow (ID)	Live ID Active
OFF	Red Blink	Fault code - count # of blinks and refer to Fault Codes

Transmitter Card (TX550-01) LED Troubleshooting Guide (cont.)

Fault Codes

FAULT CODE	LED #1	FAULT	TROUBLESHOOTING
1	1 Red Blink	No Receiver	No receiver detected by transmitter card <ul style="list-style-type: none"> • Check receiver connections • Check wiring
2	2 Red Blinks	Startup Fault	Startup sequence unsuccessful <ul style="list-style-type: none"> • Check wiring • Check receiver • Check cable length and gauge
3	3 Red Blinks	Transmission Fault	Digital Electricity transmission fault detected <ul style="list-style-type: none"> • Check wiring • Check receiver • Check cable length and gauge • Check cable capacitance • Reduce load
4	4 Red Blinks	Overload	Too much current drawn by load <ul style="list-style-type: none"> • Check wiring • Check receiver • Reduce load
5	5 Red Blinks	Temperature	Transmitter card over temperature detected <ul style="list-style-type: none"> • Check ambient conditions • Reduce load
6	6 Red Blinks	Short Circuit	Transmitter card detected short circuit <ul style="list-style-type: none"> • Check wiring • Check for short • Reduce load
7	7 Red Blinks	Ground Fault	Transmitter card detected fault to ground <ul style="list-style-type: none"> • Check wiring • Check Earth grounding
8	8 Red Blinks	Input Power	Input voltage is incorrect <ul style="list-style-type: none"> • Check wiring • Check input voltages • Contact VoltServer
9	9 Red Blinks	Internal Failure	Transmitter card detects internal hardware fault <ul style="list-style-type: none"> • Replace transmitter • Contact VoltServer

Document Revision History

Revision	Date	Description
F	11/30/2020	Correct max breaker size on page 1
G	2/22/2021	Added product photo, warranty statement; moved dimensions to p2; harmonized language
H	4/12/2021	Changed max input rating to 277VAC, corrected IP address label location
J	11/5/2021	Added acoustic noise rating.
K	11/11/2021	Changed acoustic noise rating to reflect fully loaded chassis.
L	10/12/2022	Fixed issue with swapped NC/NO in alarm contact table.
M	06/12/2023	Change VAC min input rating to 110V. Change reference to 25A breaker size to 20A in spec table. Corrected wording on input connections. Removed CAN cables from box contents (pre-installed). Updated / labeled photos of MGT500E model. Removed -03 variant. Updated LED troubleshooting guide. Added safety/EMC info. Added CAN bus cable information and photos. Protective Earth requirements harmonized. Corrected photos with updated out of box product appearance
N	03/06/2024	Added lighting configuration insert. Changed wording in introductory paragraph to “ Listed ” and “Nationally Recognized Testing Laboratory”. Updated warnings to include French translations and FCC statement. Corrected TX500 to TX550 in LED Troubleshooting Guide. Added general statement about login password.