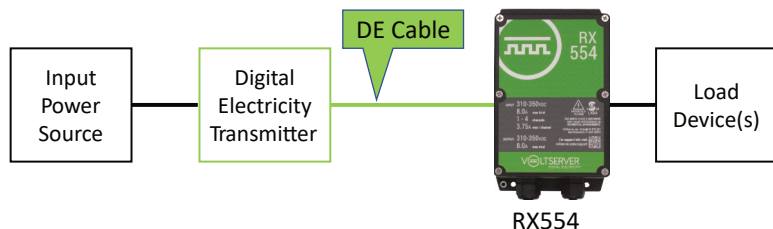The RX554 Receiver is a component in a Digital Electricity™ line powering system. When paired with a VoltServer transmitter unit, a Digital Electricity™ system is formed (see diagram). If a person or a foreign conductor comes in contact with the DE wiring, power is disconnected; preventing fire, equipment damage and personal injury. The RX554 is a **listed** product, certified to safety and EMC standards by a **Nationally Recognized Test Laboratory.**
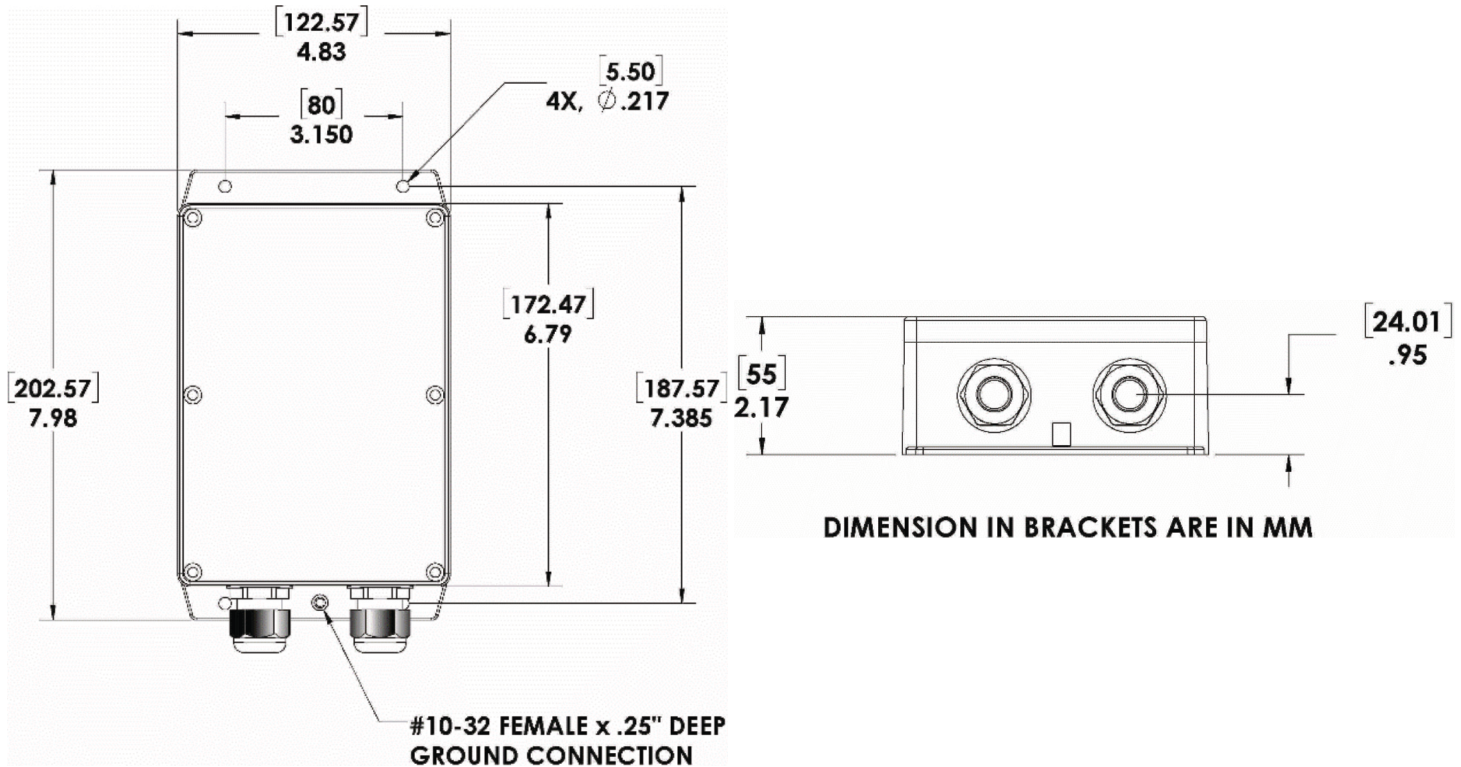

RX554 Receiver

| Input Power Source | → | Digital Electricity Transmitter | → DE Cable → | RX554 | → | Load Device(s) |

RX554

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	310-350VDC (336VDC Nominal)	Must be supplied by listed VoltServer transmitter shelf
	Number of Channels	4	
	Current Per Input Channel	3.75A MAX	
	Current, Total	8.0A MAX	
Output	Voltage	310-350VDC (336VDC Nominal)	
	Current	8.0A Max @ 40C 5.0A Max @ 50C	
	Output Wire	3 conductor, 16AWG	Positive, Negative, Earth Ground
Environment	Operating Temperature	-40°C (-40°F) to 50°C (122°F)	Cold Start limited to -20°C (-4°F). Contact VoltServer for details operating below -20°C (-4°F) and above 50°C(122°F)
	Altitude	Up to 2000m	
	Weatherproofing	IP66 (RX554 only)	Unit must be oriented with cable glands facing down to achieve IP rating. The RX554-SDG model is not rated for outdoor use.
Mechanical	Dimensions	[See page 2]	
	Weight	3lbs	
Approvals	Safety	IEC/UL/CAN 62368-1	
	EMC	EN 55032:2012 EN 300 386 v2.1.1	
	Environmental	RoHS IEC 60950-22	
	General	CE	
Box Contents	Hardware Kit	(1) Ring Terminal, 8AWG, #10 Screw, Non-Insulated (P/N: 33460) (1) 18-8 Stainless Steel Pan Head Phillips Machine Screw 10-32 Thread, 5/16" Length (4) Pan head Phillips, #8, 1" length 410 Stainless (1) 18-8 Stainless Steel Split Lock Washer Number 10 Screw Size, .34" OD, .04" min Thick

Rev A

Customer Support: support@voltserver.com | 888-622-8658, Option 1
VoltServer Inc. | www.voltserver.com | contact@voltserver.com

1 of 7

Detailed Dimensions
inches [mm]

[122.57]
4.83

[80]
3.150

[5.50]
4X, Ø.217

[172.47]
6.79

[202.57]
7.98

[187.57]
7.385

[55]
2.17

[24.01]
.95

DIMENSION IN BRACKETS ARE IN MM

#10-32 FEMALE x .25" DEEP
GROUND CONNECTION

Connection Diagram

RX 554

INPUT 310-350VDC
8.0A max total
1 - 4 channels
3.75A max / channel

OUTPUT 310-350VDC
8.0A max total

HAZARDOUS VOLTAGE

EMC MEETS CLASS A EMISSIONS
MAY CAUSE INTERFERENCE IN
RESIDENTIAL ENVIRONMENTS

VoltServer, Inc. 42 Ladd St STE 227
East Greenwich, RI USA 02818

For support info visit
voltserver.com/support

LXBA

VOLTSERVER
DIGITAL ELECTRICITY™

① Digital Electricity™ Input Port
Four (4) channels (8 pairs), 16AWG

② High Voltage DC Output Port
Three (3) conductor, 16AWG

③ Earth Ground Terminal
Screw terminal

Rev A