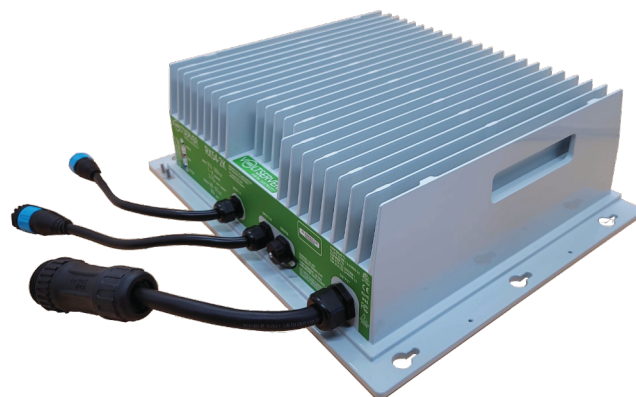
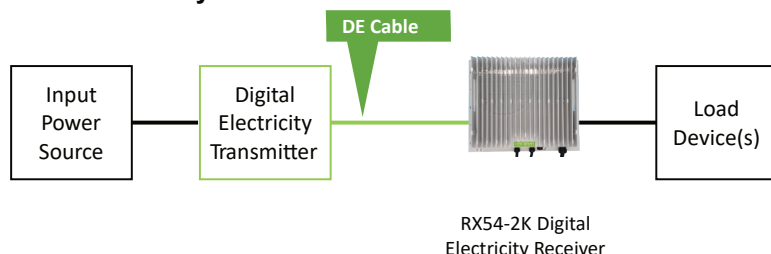


The RX54-2K Receiver is a component in a Digital Electricity™ line powering system. When paired with a VoltServer transmitter unit, a Digital Electricity™ (DE) system is formed (see diagram). If a fault occurs within the DE wiring (such as a person touching the wires), power is disconnected; preventing fire, equipment damage and personal injury. The RX54-2K is a listed product, certified to safety and EMC standards by a **Nationally Recognized Test Laboratory**.



RX54-2K Receiver



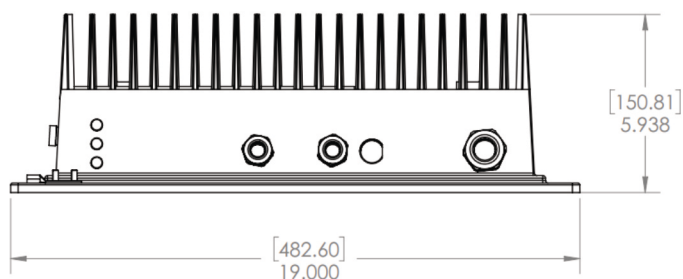
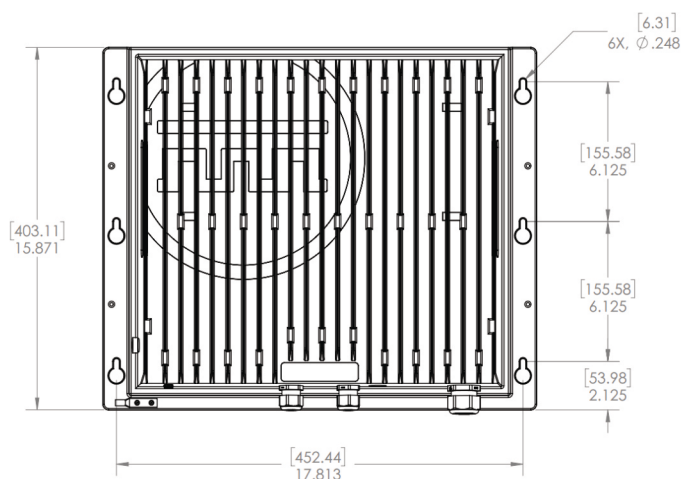
Digital Electricity™ is a **Limited Power Source** per IEC/UL/CAN 62368-1 suitable for supplying a **Class 2 circuit** under **NEC Art. 725** and **CEC Rule 16-200** (NOTE: Always follow local codes).

Specifications

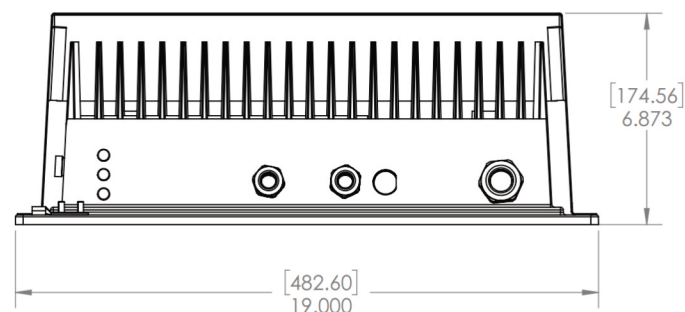
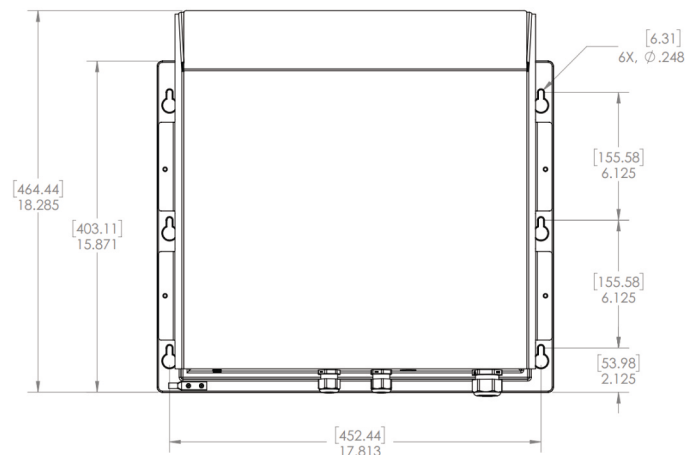
TYPE	PARAMETER	SPECIFICATION	NOTES
Input	Voltage	310-350VDC (336VDC Nominal)	Must be supplied by VoltServer transmitter shelf
	Number of Channels	Up to 8	Number of channels determined from power & distance required in design
	Current Per Input Channel	3.75A MAX	
	Current, Total	7.0A MAX	
Output	Voltage	48 - 57VDC	Fixed 54.0VDC output
	Current	38.0A MAX (up to 45°C)	Exact power/distance must be calculated using VoltServer design rules. Max power for general design is 2000W
	Output Wire Gauge	8AWG (2 Conductors)	Factory installed cable whips are 8AWG
Environment	Operating Temperature	-40°C (-40°F) to 55°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	Maximum output power derates linearly at 100W/1000m
	Weatherproofing	IP65 rated	Unit must be oriented with cable glands facing down to achieve IP rating
Mechanical	Dimensions	15.87" x 19.00" x 5.94" (Without sun shield) 18.29" x 19.00" x 6.87" (With sun shield)	Does not include cable whips or cable glands
	Weight	39lbs (Without sun shield) 44lbs (With sun shield)	Without cable whips
Approvals	Safety	IEC 62368-1	
	EMC	EN 55032 (CISPR32) - Class A FCC Part 15 - Class A EN 300 386 50121-4	
	Environmental	RoHS IEC 60950-22	
	General	CE	
Box Contents	Hardware Kit	(6) Hex Head Wood Screws 18-8, 1/4", 1" (1) Compression Lug, 2 Hole, 8AWG, #10 stud, 5/8" spacing (PN: YA8CL2TC10) (2) Stainless Steel Locknut, 18-8, 10-32	

Detailed Dimensions inches [mm]

Without Sun Shield

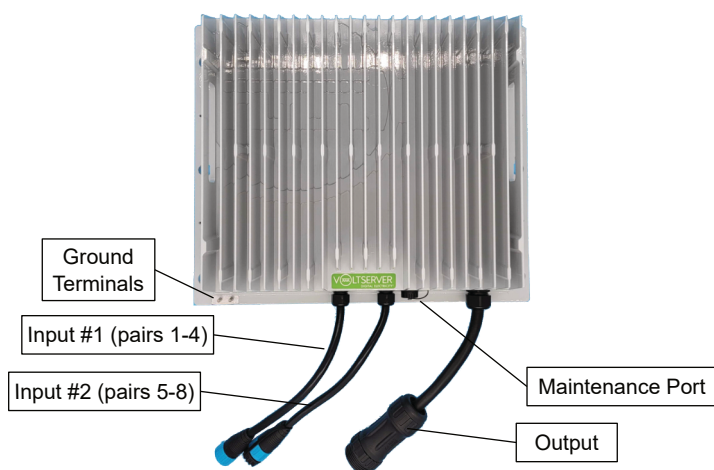


With Sun Shield



Connection Diagrams

Front View



Bottom View

