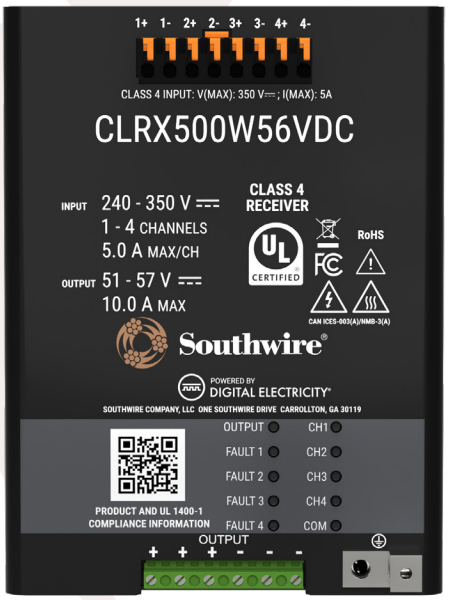
Southwire

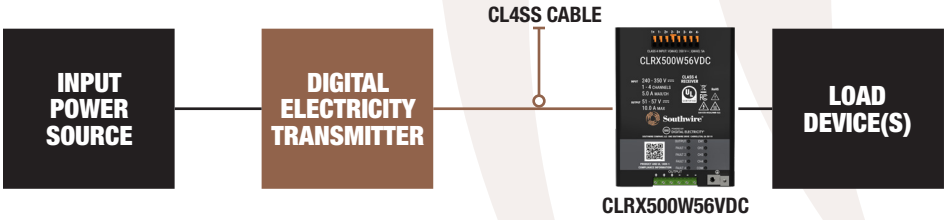
CABLETECH SUPPORT™

Services

DIGITAL ELECTRICITY® RECEIVER, 500 W, 56 VDC OUTPUT

The CLRX500W56VDC Receiver is a component in a Digital Electricity® line powering system. When the receiver is powered by a compatible Southwire transmitter, a Digital Electricity® (DE) system is formed (see diagram). The circuit between the transmitter and receiver is a Fault Managed Power (FMP) circuit and is installed as a Class 4 circuit according to NFPA70 Article 726. If a fault occurs on the DE line between the transmitter and receiver (such as a person contacting the conductors) power is disconnected; reducing the risk of fire, equipment damage and personal injury.





MODEL	DESCRIPTION
CLRX500W56VDC	CL4SS RX,500w 56vdc Indoor

BUILT FOR DURABILITY.
BUILT FOR RELIABILITY.
BUILT FOR WORK.™

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SPECIFICATIONS

TYPE	PARAMETER	SPECIFICATIONS	NOTES
INPUT	Voltage	240-350 Vdc (Nominal 350 Vdc)	Must be supplied by a UL Recognized or Listed Southwire transmitter shelf.
	Number of Channels	4	
	Current Per Input Channel	5.0 A Max	
	Current, Total	12.0 A Max	
	Input Wiring Size	12-18 AWG	
OUTPUT	Voltage	51-57 Vdc (Nominal 56 Vdc)	
	Number of Ports	3	Each port has 2 connections (+ / -).
	Current Per Output Port	10.0 A Max	
	Current, Total	10.0 A Max	
	Output Wiring Size	12-18 AWG	16 AWG minimum if running full load on a single pair.
	Ripple and Noise	200 mV pk-pk Max	Measured at 20 MHz of bandwidth by using a 12" twisted pair wire terminated with 0.1 uF and 47 uF capacitors in parallel.
ENVIRONMENT	Operating Temperature	-40°C (-40°F) to 65°C (149°F)	Cold Start limited to -20°C (-4°F).
	Altitude	Up to 2000 m	
MECHANICAL	Dimensions	8.02" x 6.00" x 5.58" (203.6 mm x 152.4 mm x 141.7 mm)	
	Weight	5.55 lbs with DIN clips installed 5.78 lbs with wall mount bracket installed	
PROTECTION	Common Mode Surge	6 kV Max	Up to 5 surges.
	Differential Mode Surge	1 kV Max	Up to 5 surges.
	Over Load	105-150% rated output power	Hiccups after 3 seconds. Automatically recovers once fault condition is removed.
	Over Voltage	59.4-70.2 Vdc, output voltage shuts down	Need to re-power unit to recover.
	Over Temperature	Output voltage shuts down	Automatically recovers once temperatures go down.
APPROVALS	Safety	UL 1400-1 UL 62368-1 EN IEC 62368-1 CAN/CSA-C22.2 No. 62368-1	*Evaluated as part of a FMP system by Underwriters Laboratories.
	EMC	FCC Part 15 Subpart B Class A ICES-003 Class A EN 55032 Class A EN 55035 (multimedia equipment) EN 50121-4 (rail immunity) EN 300 386 (telecom immunity)	
	Other	CE, RoHS, WEEE, UKCA, REACH	
ACCESSORIES	Hardware Kit (Included)	(1) 8 Position Terminal Block Plug, P/N: 8000078359	
	Sold Separately	CLRX500W56VDC Wall Mount Bracket	

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