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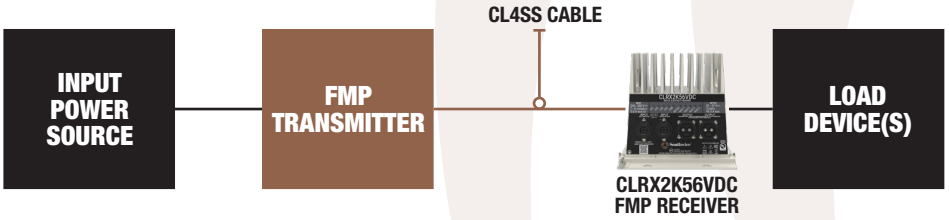
CABLETECH SUPPORT™

Services

# DIGITAL ELECTRICITY® RECEIVER, 2500W, 56VDC OUTPUT

The CLRX2K56VDC Receiver (RX) is a component in a Digital Electricity® line powering system. When the receiver is powered by a compatible Southwire Transmitter (TX), a Digital Electricity® (DE) system is formed (see diagram). The circuit between the TX and RX is a Fault-Managed Power (FMP) circuit and is installed as a Class 4 circuit according to NFPA 70 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 |
|---|---|
| CLRX2K56VDC | CL4SS RX, 2.5kw, 56vdc, Outdoor IP66 |

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# CABLETECH SUPPORT™ Services

## 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 Ports | 2 | Each port has 2 channels. |
| | Number of Channels | 4 | |
| | Current Per Input Channel | 5.0 A Max | |
| | Current, Total | 12.0 A Max | |
| | Input Wire | 14-18 AWG | |
| | Input Cable Diameter | 0.24-0.49 in (6.0-12.5 mm) | |
| **OUTPUT** | Voltage | 51-57 Vdc (Nominal 56 Vdc) | |
| | Number of Ports | 2 | Each port has 2 connections (+ / -). |
| | Current Per Output Port | 45.0 A Max | |
| | Current, Total | 45.0 A Max | |
| | Output Wire | 8 AWG | |
| | Output Cable Diameter | 0.57-0.75 in (14.5-19.0 mm) | |
| | Output Mode | Constant Voltage | |
| **EFFICIENCY** | Typical Efficiency | 95% at full load | |
| **ENVIRONMENT** | Operating Temperature | -40°C (-40°F) to 70°C (158°F) | Cold Start limited to -20°C (-4°F). Derate after 46°C. |
| | Altitude | Up to 2000 m | |
| | Weatherproofing | IP66 | Per IEC 60529. Unit must be oriented with panel mount connectors facing down to achieve IP rating. |
| **MECHANICAL** | Dimensions | 18.99" x 7.98" x 7.60"<br>(482.3 x 202.8 x 193.1 mm) | |
| | Weight | 24 lbs (without sunshield)<br>30 lbs (with sunshield) | |
| **PROTECTION** | Common Mode Surge | 6 kV Max | Up to 5 surges. |
| | Differential Mode Surge | 1 kV Max | Up to 5 surges. |
| | Over Voltage | 60-67 Vdc | Output voltage shuts down. |
| | Over Temperature | Output voltage shuts down | Automatically recovers once temperatures go down. |
| **APPROVALS** | Safety | UL 1400-1<br>UL 62368-1<br>EN IEC 62368-1<br>CAN/CSA-C22.2 No. 62368-1 | |
| | EMC | FCC Part 15 Subpart B Class A<br>ICES-003 Class A<br>EN 55032 Class A<br>EN 55035 (multimedia equipment)<br>EN 50121-4 (rail immunity)<br>EN 300 386 (telecom immunity) | |
| | Other | CE, RoHS, WEEE, UKCA, REACH, ISTA 3A | |
| **ACCESSORIES** | Hardware Kit (Included) | (1) Amphenol 4-position female field connector, P/N: C01620D00311010<br>(1) Amphenol 2-position male field connector, P/N: PWM-02BFMB-TL7001<br>(1) 2 Hole Compression Lug, #10 stud, 6 AWG, P/N: YAV6CL2TC10FX<br>(2) 18-8 locknut, external-tooth lock washer, 10-32, P/N: 96278A411 | |

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