Southwire

CABLETECH SUPPORT™ Services

6 KW DIGITAL ELECTRICITY® TRANSMITTER

The CLTX6K3 Transmitter is a component in a Digital Electricity® line powering system. When the transmitter is paired with a compatible Southwire receiver, 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 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.

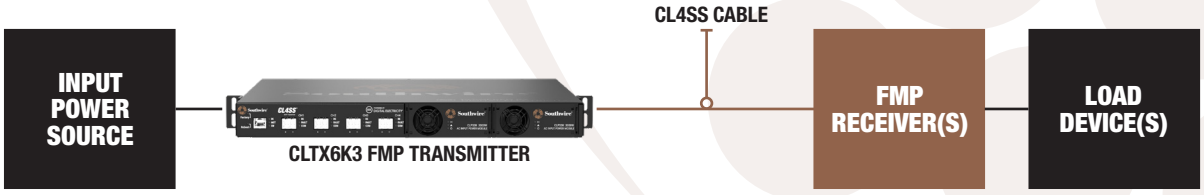
FEATURES

- Efficiency up to 96% for DC input and 94% for AC input
- Four Fault-Managed outputs capable of up to 1.5 kW each, 6 kW total
- Remote monitoring and control
- In-line communications from FMP TX to RX
- Output Protections:
  - Short Circuit
  - Under Voltage
  - Over Voltage
  - Overload
  - Over Temperature
- Web GUI, Rest API, SNMP v3
- 3 Year warranty



APPLICATIONS

- 5G Small Cell, DAS, & D-RAN Radios
- Broadband & Fixed Wireless Access (FWA)
- Smart Building PoE Switches & GPON ONTs
- Industry 4.0 Control Racks & Cabinets
- Temporary Remote Power
- Rail & Transit



MODEL	DESCRIPTION
CLTX6K3	CL4SS TX, 6kw Max W/ (1) 3kw Pwr Supply

BUILT FOR DURABILITY.
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SPECIFICATIONS

TYPE	PARAMETER	SPECIFICATIONS	NOTES
INPUT	Voltage	100 - 277 Vac 260 - 400 Vdc	AC input voltage must be 208 Vac or greater for full power operation.
	Max Current per Input	16 A rms 12.2 A	Minimum circuit breaker size is 20 A per input connection.
OUTPUT	Voltage	315 - 350 Vdc	Digital Electricity / FMP / Class 4 input.
	Total Power per Shelf	Up to 6 kW	For greater than 3 kW operation, two power modules must be powered.
	Number of Output Channels	4	
	Max Current per Channel	4.68 A	Use design rules for calculating delivered power.
	No Load Power Consumption	40 W max	Based on fully populated unit (two power modules are installed).
	Output Wiring Size	18 - 12 AWG	
	Max Distance	6000 ft	
	Recommended Cable Capacitance	40 pF/ft (131.2 pF/m) max	Higher capacitance cables may reduce performance.
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. Derate after 40°C with 1U spacing.
	Altitude	Up to 2000 m	
	Humidity	20% to 70% Non-condensing	
MECHANICAL	Dimensions	17.40" x 18.67" x 1.74" (442mm x 474.2mm x 44.3mm)	Fits 19" (482.6 mm) and 23" (584.2 mm) racks.
	Weight	16.55 lbs	Weight of fully populated unit (two power modules are installed).
PRODUCT LIFETIME	Safe Lifetime	30 years max	Dependent on use case.
	MTBF	580,922 hrs	
APPROVALS	Safety	UL 1400-1[1] UL 62368-1 EN IEC 62368-1 CAN/CSA C22.2 No. 62368-1 IEC 61508 ATIS-0600040	[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, ISTA 3A	
COMMUNICATION	Ethernet	RJ45, 10/100 Mbps	Remote monitoring and control via web GUI, SNMP v1/v3.
	Dry Contact Alarm Output	1x Normally Open (NO) 1x Normally Closed (NC)	Supports alarm circuitry with maximum steady state current of 500 mA at 25°C.
	Dry Contact Alarm Input	1x Normally Open (NO) 1x Normally Closed (NC)	
BOX CONTENTS	Included Parts	1 x CLTX6K3 Transmitter Chassis 1 x CLPS3K Power Module (already installed) 2x Rack Mounting Brackets, fits 19" racks (already installed) 4x DE Output Connectors (MFN: 831-1102) 1x Dry Contact Input Connector (MFN: 1745894) 1x Alarm Relay Output Connector (MFN: 1952283) 1x Ground Lug (MFN: LCD10-14A-L) 2x ¼"-20 Thread Size, Steel Locknut with External- Tooth Lock Washer 2x 6-32 Thread Size, 3/8" Long, Black-Oxide 18-8 Stainless Steel Phillips Head Screws 1 x CBL-PWR-SAFD-L720P	

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