

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

Emerson KJ1501X1-BC4

System Dual DC Power Supply

INPUT OPTION 1	INPUT OPTION 2	AMBIENT	DOCUMENT
12 VDC at 14.8 A	24 VDC at 6.1 A	-40 to +70 C	ATEX10 / Jan 2020

Amikon reference package; the attached Emerson ATEX10 sheet is not a complete system installation manual.

01

DOCUMENT IDENTITY AND RATINGS

Product model	KJ1501X1-BC4
Product type	System Dual DC Power Supply
12 VDC output; 12 VDC input	13 A
12 VDC output; 24 VDC input	8 A
5.1 VDC output	2.0 A
3.4 VDC output	2.0 A
5.1 + 3.4 VDC combined power	10.2 W total

02

INSTALLATION CONTROLS

- Do not remove or insert this unit while system power is energized.
- In 12 VDC passthrough mode, the source must not exceed 12.6 VDC or supply more than 16 A.
- Follow 12P2046 and the DeltaV S-Series and CHARMs Hardware Installation manual.
- Do not disassemble this unit; it contains no user-serviceable parts and requires no calibration.
- Read the complete original safety sheet on page 2 before installation or removal.

KJ1501X1-BC3 System Dual DC Power Supply

KJ1501X1-BC4 System Dual DC Power Supply

Hazardous Atmosphere



II 3G Ex nA nC IIC Gc
Nemko 07ATEX3058U

Power Specifications

Input rating	12 VDC at 14.8 A
	24 VDC at 6.1 A
Output rating	12 VDC at 13 A (12 VDC input)
	12 VDC at 8 A (24 VDC input)
	5.1 VDC at 2.0 A
	3.4 VDC at 2.0 A
Output Power	10.2 W (total from +5.1 VDC and +3.4 VDC)

Environmental Specifications

Ambient Temperature	-40°C to +70°C
Shock	10g ½ Sinewave for 11msec
Vibration	1mm Peak to Peak from 2 to 13.2Hz; 0.7g from 13.2 to 150Hz
Airborne Contaminants	ISA-S71.04 –1985 Airborne Contaminants Class G3
Relative Humidity	5 to 95% Non-Condensing

Note: Refer to the product label for serial number and location and date of manufacture.

Warning: This product has specific instructions for installation, removal and operation in hazardous areas. Refer to document 12P2046 *"DeltaV™ Scalable Process System Zone 2 Installation Instructions"*. Other installation instructions are

available in the *"DeltaV™ S-Series and CHARMS Hardware Installation"* manual.

The voltage source to this power supply in 12 VDC passthrough mode must not generate or contain in normal operation, a source of potential in excess of 12.6 VDC and supply no more than 16 A maximum.

Removal and Insertion

This unit cannot be removed or inserted with system power energized.

Maintenance and Adjustment

This unit contains no user serviceable parts and should not be disassembled for any reason. Calibration is not required.

Other Safety Approvals



CL. 1 Div. 2
GP. A,B,C,D
HAZ. LOC.
TEMP. Rating T4

