

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

DELTA V

KJ1501X1-BC5

M-SERIES DC SYSTEM POWER SUPPLY

Used with the applicable DeltaV M-series system power configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Emerson official manufacturer documentation

ATEX Instruction Sheet

Part Number: ATEX304

Publish date: February 2023

System Power Supply

KJ1501X1-BC5 SYSTEM DC POWER SUPPLY M-SERIES (DC/DC)

Hazardous Atmosphere



II 3G Ex ec nC IIC Gc
FM19ATEX0173U
IECEx FMG 19.0019U
FM21UKEX0017U



CL. I Div. 2 GP. A,B,C,D
CL. I Zone 2 AEx/Ex ec nC IIC Gc
FM17US0286U
FM17CA0145U

Power Specifications

Input Rating	12 VDC at 13.8 A 24 VDC at 4.5 A
Output Rating	5.1 VDC at 2.0 A 3.4 VDC at 2.0 A
(40°C to +60°C)	12 VDC at 13 A (12 VDC input) 12 VDC at 8 A (24 VDC input)
(40°C to +70°C)	12 VDC at 10 A (12 VDC input) 12 VDC at 6 A (24 VDC input)
Output Power	10.2 W (total from +5.1 VDC and +3.4 VDC)
Alarm Contact Rating	30 VDC at 2.0 A

Environmental Specifications

Ambient Temperature	-40°C to +60°C...+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 manufacturer.

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 Hardware Installation and Reference" 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

