

ISUPS 300WH V2 INTRINSICALLY SAFE UNINTERRUPTIBLE POWER SUPPLY

IECEX TSA 10.0008X

Description

The Ampcontrol 300Wh V2 Intrinsically Safe Uninterruptible Power Supply (IS UPS) is designed for Group I applications. The IS UPS converts 90 ~ 250 VAC mains power into Intrinsically Safe low voltage DC power, as well as providing battery back-up. A user accessible keypad, LCD screen, and indicator lamps allow interrogation and configuration of the IS UPS. The IS UPS is available in a range of output voltage and current levels.

The IP66 rated enclosure is constructed of stainless steel with screw terminals inside internal connection boxes on top of the enclosure. The IS UPS has two separate connection compartments to isolate the incoming AC power from the various Intrinsically Safe Circuits.

Typical applications of this power supply are voice communication systems, gas detection systems, emergency lighting, wireless access points and other electronic equipment requiring Intrinsically Safe Ex ia battery backed power in a Group I environment.



Features

- Universal Input – 90~250 VAC
- IP-66 All Stainless Steel Construction
- LED Status Indication
- LCD Information Display
- RS-485 Modbus RTU Communications
- Periodic & Event Data Logging
- Configurable Shutdown Timer
- Real Time Clock
- Separate Ex e and Ex ia internal connection compartments
- Certified Intrinsically Safe with Ex ia output

Operation

The DC output exhibits very low output impedance. The output voltage is reduced by an average of 0.4V at full load. Precise smart current limiting provides maximum available current up to the I_o parameter. The power supply output acts as a current limited voltage source. The load impedance can vary down to short circuit while the maximum output current is maintained.

The Ampcontrol Intrinsically Safe Uninterruptible Power Supply is equipped with an internal microprocessor and non-volatile memory allowing user configuration of operational parameters as well as periodic and event based data logging. Status can be viewed locally on the backlit LCD display or monitored remotely via the RS-485 communication port utilising Modbus RTU protocol.

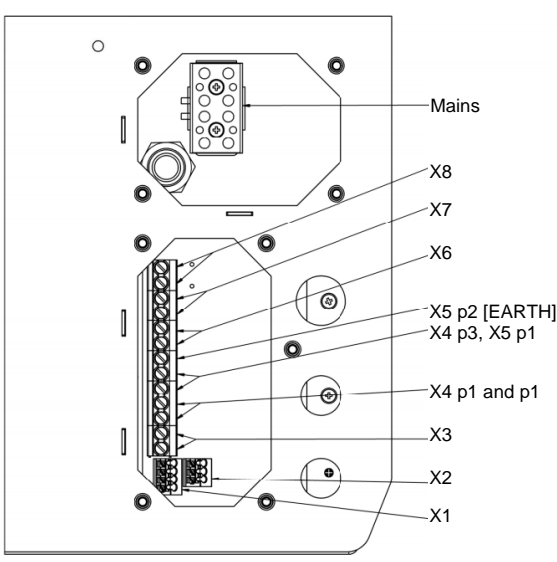
Replacement Terminal Cover Part Numbers

Part Number	Description
179493	KIT ISUPS2 COVER TERM AC 300WH
179494	KIT ISUPS2 COVER TERM IS 300WH

Part Numbers & Associated Intrinsically Safe Output Parameters

Description (Output)	Item Number	Uo	Io	Co	Lo	L/R	Um
15.1VDC / 1.50A	161823	15.1V	1.50A	1.0µF	200µH	87.17µH/Ω	250V
		15.1V	1.50A	2.09µF	181.5µH	79µH/Ω	250V
15.1VDC / 0.51A	177263	15.1V	0.51A	1.0µF	200µH	87.17µH/Ω	250V
15.1VDC / 0.5A	177262	15.1V	0.50A	1.0µF	200µH	87.17µH/Ω	250V
15.1VDC / 0.47A	177260	15.1V	0.47A	2.01µF	520µH	87.17µH/Ω	250V
14.5VDC / 1.50A	177261	14.5V	1.50A	1.0µF	200µH	87.17µH/Ω	250V
12.6VDC / 2.5A	174622	12.6V	2.50A	2.0µF	167.2µH	33µH/Ω	250V
12.6VDC / 2.4A	161826	12.6V	2.40A	2.0µF	167.2µH	33µH/Ω	250V
12.6VDC / 2.0A	161825	12.6V	2.00A	502nF	164µH	40.1µH/Ω	250V
		12.6V	2.00A	20.54µF	102.1µH	39µH/Ω	250V
12.6VDC / 1.5A	177259	12.6V	1.50A	1.0µF	200µH	87.17µH/Ω	250V
		12.6V	1.50A	2.09µF	181.5µH	79µH/Ω	250V

Specifications

Mechanical Specifications	
Dimensions (mm)	298 W x 206 H x 227 D
Weight	23kg
Operating Temp.	-17°C to +60°C
Ingress Protection	IP66
Electrical Specifications	
Supply Voltage	90-250Vac, 50/60Hz
Max. Current Draw	1A @ 100VAC
Electrical Connection & I.S. Parameters	
	<p>Terminal X1 : Relay 2 & 3 $U_i = 30V$ $I_i = 3A$ $U_o = 0V$</p> <p>Terminal X2 : Digital Input 2 & 3 $U_i = 16.5V$ $U_o = 0V$</p> <p>Terminal X3 : Relay 1 $U_i = 30V$ $I_i = 3A$ $U_o = 0V$</p> <p>Terminal X4 : Pins 1 & 2; Power Supply for RS-485 $U_i = 16.5V$ $I_i = 2.8A$ $C_i = 0µF$ $L_i = 0µH$</p> <p>Terminal X5 : Pin 3 & Terminal X6 Pin 1; Data for RS-485 $U_i = 7.14V$ $C_i = 0.221µF$ $L_i = 0µH$ $U_o = 5.88V$ $I_o = 124mA$</p> <p>Terminal X6 : Digital Input 1 $U_o = 16.5V$ $I_o = 16.8mA$ $L_o = 100µH$ $C_o = 1µF$</p> <p>Terminal X7 : External Start Push Button $U_o = 32.5V$ $I_o = 24mA$ $L_o = 100µH$ $C_o = 0.04µF$</p> <p>Terminal X8 : DC Output Model dependent, refer to ordering table</p>

DISCLAIMER

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