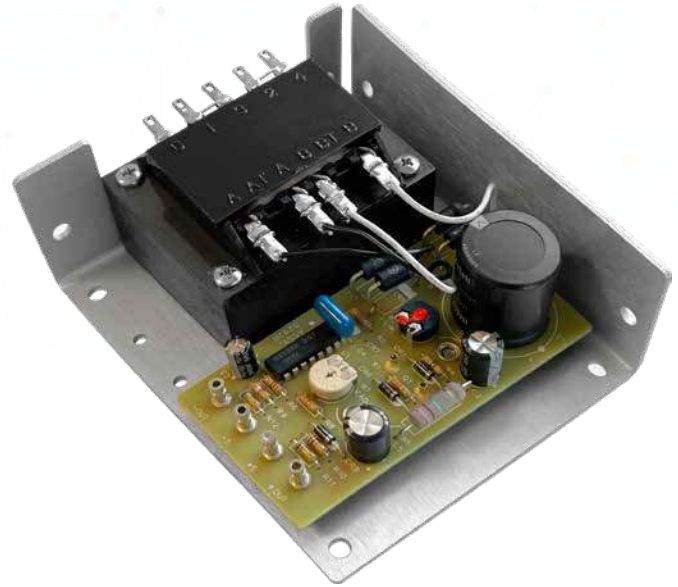




# 15 VOLT DC POWER SUPPLY

The INCON® 15 Volt DC regulated Power Supply is used with INCON® Programmable Load Tap Changer (LTC) Position Monitors that are ordered with the 4-20 milliamp analog output option.



## HIGHLIGHTS & TECHNOLOGY

The five-wire input to the power supply provides four voltage ranges: 100/120/220/230-240. Extended low line tolerance provides additional drop out margin in areas where line voltages are marginal. Inputs must be fused.

Convection cooling is adequate where nonrestricted airflow is available. When operating in a confined area, moving air or conduction cooling is recommended.

The power supply has inherently low conducted and radiated noise levels for most system applications that meet the requirements of FCC Docket 20780 for Class A equipment without additional noise filtering.

The 1945 power supply is designed to meet or exceed requirements of the following specifications: IEC 380, IEC 435, VDE 0730 Part 2, VDE 0804, ECMA-57, CEE 10 Part 2P, UL 1012, CSA 22.2 No. 143, CSA 22.2 No. 154. Specifically, field terminal to terminal spacing is 5.25 mm with 9.0 mm creepage to other metal. Leakage current is less than 5.0 mA and dielectric withstanding voltages are 3750 VAC input to chassis. 3750 VAC input to output and 300 VDC output to chassis.

VDE transformer construction - full rated to 50 °C

+ 0.05% regulation - foldback / current limit

T.C. burned-in to MIL - 883 Lev. B

UL recognized / CSA certified

Chassis notched for AC input

Over voltage protection on 15V output

100/120/220/230-240 VAC power

Industry standard size

This product is a Class 1 power supply and requires the chassis to be connected to earth ground at end application.

## APPLICATIONS

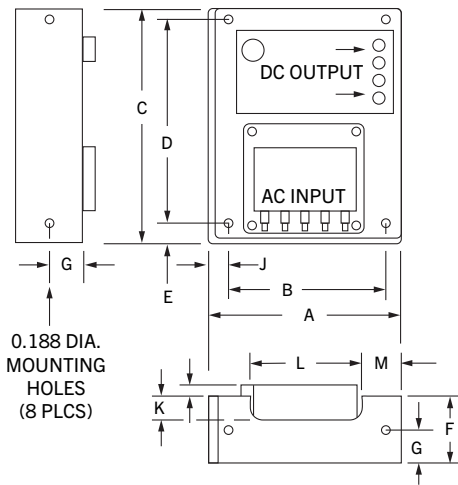


# SPECIFICATIONS

AC Input	100 / 120 / 220 / 230-240 VAC, $\pm 10\%$ , 47-63Hz (derate output current 10% for 50 Hz operation). Fuse at: 0.5 / 0.25 amps for 100 -120 / 220 - 240 VAC. See AC Input Wiring Connections table, for jumpers required.
DC Output	12 - 15V ( $\pm 5\%$ ) adjustable
Line Regulation	$\pm 0.05\%$ for a 10% line change
Load Regulation	$\pm 0.05\%$ for a 50% load change
Output Ripple	5.0 mV PK-PK maximum
Transient Response	$\leq 50\mu\text{s}$ for a 50 to 100 % load change
Short Circuit And Overload Protection:	Automatic current limit / foldback
Over Voltage Protection	Not available
Remote Sensing	Separately connect S+ and S- terminals to the load to regulate the voltage at the load
Stability	$\pm 0.3\%$ for 24 hour period after 1 hour warm-up
Temperature Rating	0° C to 50° C full-rated derated linearly to 40% at 70° C
Temperature Coefficient	$\pm 0.03\%$ / °C maximum
Efficiency	55%
Vibration	Per ML-STD-8100 method 514.3 category 1 procedure I
Shock	Per ML-STD-8100 method 516.3 procedure III
Weight	2 lbs (1 KG), shipping: 3 lbs (1.5 Kg)

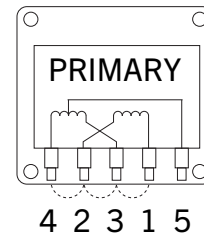
Note: Specifications subject to change without notice.

## DIMENSIONS



A	4" (101.60 mm)
B	3.375" (85.73 mm)
C	4.87" (123.70 mm)
D	4.125" (104.78 mm)
E	0.05" (12.70 mm)
F	1.62" (41.15 mm)
G	0.75" (19.05 mm)
H	0.45" (11.43 mm)
J	0.38" (9.65 mm)
K	0.57" (14.48 mm)
L	1.90" (48.26 mm)
M	0.794" (20.17 mm)

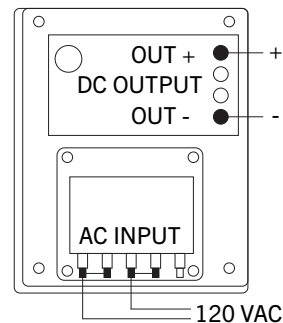
## AC INPUT WIRING CONNECTIONS



### AC Input, 47-63 Hz

For Use At	Jumper	Apply AC
100 VAC	1 & 3 2 & 4	1 & 5
120 VAC	1 & 3 2 & 4	4 & 1
220 VAC	2 & 3	1 & 5
230/240 VAC	2 & 3	4 & 1

## FIELD WIRING



## ORDERING INFORMATION

Model	Description
1945	15 Volt DC Power Supply