

ACE-890 ACE-709

Industrial 1U Power Supply

Industrial 1U 12V/24V/48VDC Input ATX
Power Supply



ACE-890



ACE-8901 ACE-8902 ACE-8903



ACE-709

ATX Function

Features

- ◆ High efficiency
- ◆ Low Ripple and Noise
- ◆ Short circuit , Overload , Over voltage Protected

SPECIFICATIONS



◆ Input / Output Table : (at 50°C)

Model	Input Voltage	Rated Load			Max Output		
		+5V	+12V	-12V	+5V	+12V	-12V
ACE-890A/890AP	85~264V AC	10A	2.5A	0.5A	12A	4A	1A
ACE-890C	18V~36V DC	10A	2.5A	0.5A	12A	4A	1A
ACE-890P	70V~132V DC	10A	2.5A	0.5A	12A	4A	1A
ACE-890T	36V~72V DC	10A	2.5A	0.5A	12A	4A	1A
ACE-890V	9V~16V DC	9A	2.5A	0.5A	12A	4A	1A

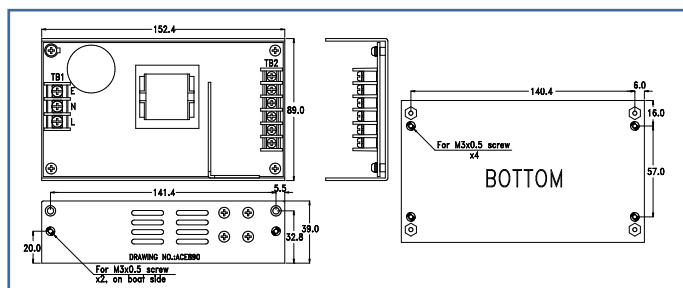
ACE-890AP: min load + 5VDC/ 1.5A, + 12VDC, -12VDC/ 0.05A

- ◆ Ripple and Noise : Less than +5V@50mV, 12V@100mV
Less than +5V@100mV, -12V@150mV, -12V@200mV (ACE-890AP)
- ◆ Line Regulation : The line regulation for each output is less than 1%, while measuring at rated loading and 10% of input voltage changing
- ◆ Load Regulation : Less than 1% @+5V and 5% @ 12V
- ◆ Efficiency : Higher than 70%
- ◆ Hold-up Time (ACE-890A/890AP) : 16ms (typical)@115V AC
- ◆ Protection : Over voltage protection. The trip point is around 5.7V~7.0V output
- ◆ Operating temperature : -20 ~70°C (Derating curve will occur 50 ~70°C)
- ◆ Storage temperature : -20 ~85°C
- ◆ Altitude : 0~10,000ft
- ◆ MTBF : - ACE-890A : 268,358 Hours - ACE-890P : 265,827 Hours
- CE-890T : 269,884 Hours - ACE-890C : 252,383 Hours
- ACE-890V : 245,424 Hours. - ACE-890AP : 50,000Hours
- ◆ Safety : CSA 22.2 No. 234(ACE-890A/C/T/V), TUV(ACE-890AP/V/C/T)
meets CE(ACE-890AP/V/C/T/P)
- ◆ EMI : Meets FCC docket 20780 curve "B", EN55022 "B"
Harmonic EN 61000-3-2 for ACE-890AP
- ◆ EMS Standard (Designed to meet the following limits) :
- IEC 801-2 15KV (Air Discharge) - IEC 801-3, 10V/M
- IEC 801-4, 2KV - IEC 801-5, 2KV
- ◆ Dimensions : 89(W) x 39(H) x 152.4(D)mm; (3.5" x 1.5" x 6")

ORDERING INFORMATION

- ACE-890AP AC input 86W industrial PFC power supply
- ACE-890A AC input 90W industrial power supply
- ACE-890C 24V DC input 90W industrial power supply
- ACE-890P 100V DC input 90W industrial power supply
- ACE-890T 48V DC input 90W industrial power supply
- ACE-890V 12V DC input 75W industrial power supply
- CB-8901 DC output cable for backplane (P8/P9 type) and HDD/FDD, 40cm
- CB-8902 DC output cable for CPU card (271-08TS) and HDD/FDD, 40cm
- CB-8903 DC output cable for NOVA series SBC (Molex 26-60-4080) and HDD/FDD, 40cm

Dimensions



SPECIFICATIONS



+5Vsb & PS On cable



◆ Input Voltage / Input Current:

Model	Input Range	Input Current	MAX Current
ACE-709CX	18VDC~32VDC	6A@+24VDC	8A@+18VDC
ACE-709TX	36VDC~72VDC	3A@-48VDC	4A@-6VDC
ACE-709VX	9VDC~16VDC	10A@+12VDC	13A@+9VDC

◆ Output Rating (at 50°C)

Nominal	Regulation	ACE-709CX		ACE-709TX		ACE-709VX	
		Rated	Max	Rated	Max	Rated	Max
+5V	+/-1%	10A	15A	10A	15A	8A	12A
+12V	+/-5%	2.5A	5A	2.5A	5A	2.5A	4A
-12V	+/-5%	0.5A	1A	0.5A	1A	0.5A	1A
+5Vsb	+/-5%	0.5A	1A	0.5A	1A	0.5A	1A

- ◆ Ripple and Noise: Less than 1% of each output at rated load
- ◆ Efficiency: Higher than 75%(ACE-709CX/ACE-709VX)
Higher than 70%(ACE-709TX)
- ◆ Protection: Over voltage/Load protection and short circuit protection
- ◆ Altitude: 0~10,000 ft
- ◆ TTL signal compatible power good signal
- ◆ MTBF:
ACE-709CX: 158,117 hours
ACE-709TX: 170,1210 hours
ACE-709VX: 162,630 hours
- ◆ Vibration: 10-55Hz at 2G 3min period 30min along X, Y and Z axis
- ◆ Shock: 10G for 11ms once on each X, Y and Z axis
- ◆ Safety: UL 1950 ,TUV EN 60950:2000, CCC, meets CE
- ◆ EMI: FCC docket 20780 curve , EN 55022 class "B"
- ◆ EMC: EN 61000-4-2 4KV contact air discharge criterion B
EN 61000-4-3 10V/M with 80% AM criterion A
EN 61000-4-4 2KV criterion B
EN-61000-4-5 0.5KV criterion B
- ◆ Operating Temperature: 0~70°C
- ◆ Storage temperature: -20~85°C
- ◆ Dimensions: 89(W)x39(H)x152.4(D)mm

ORDERING INFORMATION

- ACE-709CX 90W 24V DC input ATX Power Supply
- ACE-709TX 90W 48V DC input ATX Power Supply
- ACE-709VX 80W 12V DC input ATX Power Supply

Dimensions

