

ACE-828/830

Industrial ATX Power Supply



PFC

- **Output Power** : Total combined output power on the +3.3V and +5V rails is 150W
- **Efficiency** : Higher than 65%
- **Hold-up Time (ACE-828A/830AP)** : 20ms (typical)@115V AC
- **Altitude** : 0 ~ 10,000ft
- **Protection** :
 - Over voltage protection : The trip point is around 5.7V ~ 7.0V output
 - Short circuit protection
- **Vibration** : 10 ~ 55Hz at 2G 3min. period, 30 min. along X, Y and Z axis
- **Impact** : 10G for 20ms once on each X, Y and Z axis
- **Built-in ball bearing cooling fan**
- **MTBF** :
 - ACE-828A : 101,379 Hours
 - ACE-828C : 121,233 Hours
 - ACE-828T : 112,112 Hours
- **Safety** : Meets UL 1950; CSA 22.2 No. 234, VDE EN 60 950
- **EMI** :
 - Meets FCC class "B", EN55022 class "B"
 - Harmonic EN 61000-3-2 for ACE-830AP
- **EMS Standard (Design to meet the following limits)** :
 - IEC 801-2 8KV (Air Discharge)
 - IEC 801-3, 3V/M criteria A
 - IEC 801-4, 2KV criteria B
 - IEC 801-5, 2KV criteria B
- **Operating Temperature** : -20° ~ 70°C (Derating curve will occur 40°~ 70°C)
- **Storage Temperature** : -40° ~ 75°C

Specifications

Input Table :

Model	Input Range	Input Current
ACE-828A/830AP	90 ~ 130V AC or 180 ~ 260V AC, 47 ~ 63Hz (Auto-Switch)	
ACE-828C	+18 ~ +32V DC	5A@24V DC
ACE-828T	-40 ~ -72V DC	10A@-48V DC

Output Table : (at 40°C)

Model	Rated Load						Max Output					
	+5V	+12V	-12V	-5V	+3.3V	+5Vs _b	+5V	+12V	-12V	-5V	+3.3V	+5Vs _b
ACE-830AP	30A	6A	0.5A	0.5A	10A	1A	35A	10A	1A	1A	20A	1.5A
ACE-828A	25A	10A	0.5A	0.5A	8A	0.72A	30A	15A	2A	1A	15A	1.2A
ACE-828C	25A	7A	1A	0.5A	8A	0.72A	30A	15A	2A	1A	15A	1.2A
ACE-828T	25A	7A	1A	0.5A	8A	0.72A	30A	15A	2A	1A	15A	1.2A

- **Ripple and Noise** : Less than 50mV@+5V and +3.3V; 100mV@Others
- **Line Regulation** : The line regulation for each outputs are less than ±1%
- **Load Regulation** :

Model	+5V	+12V	-12V	-5V	+3.3V	+5Vs _b
ACE-830AP	<±1%	<±1%	<±1%	<±1%	<±1%	<±1%
ACE-828A	<±3%	<±5%	<±2%	<±2%	<±2%	<±3%
ACE-828C	<±3%	<±5%	<±2%	<±2%	<±2%	<±1%
ACE-828T	<±3%	<±5%	<±2%	<±2%	<±2%	<±1%

Ordering Information:

ACE-830AP

AC input PFC 300W industrial ATX power supply

ACE-828A

AC input 280W industrial ATX power supply

ACE-828C

+24V DC input industrial ATX power supply

ACE-828T

-48V DC input industrial ATX power supply