

# ACE-716

## Rugged AC/DC Input 150W Power Supply



PFC



### SPECIFICATIONS

#### Input Table :

Model	Input Range	Input Current
ACE-716A/716AP	85~135V AC or 180~265V AC, 47~440Hz	4A@115V AC or 2A@230V AC
ACE-716T	-36 ~ -72V DC	6A@-48V DC
ACE-716C	+19 ~ +30V DC	12A@+24V DC

#### Output Table (at 50°C) :

Model	Rated Load				Max. Output			
	+5V	+12V	-5V	-12V	+5V	+12V	-5V	-12V
ACE-716A/716AP	18A	4A	0.5A	1A	25A	10A	1A	1A
ACE-716T	18A	4A	0.5A	1A	25A	10A	1A	1.5A
ACE-716C	18A	4A	0.5A	1A	25A	10A	1A	1.5A

- **Inrush Current (ACE-716A/716AP)** : Not exceed 15A@115V AC or 30A@230V AC
- **Ripple and Noise** : Less than 100mV
- **Line Regulation** : The line regulation for each outputs are less than -1%, while measuring at rated loading and -10% of input voltage changing
- **Load Regulation** :
  - ACE-716A/716AP : Less than -3%@-5V and -12V, -6%@+12V
  - ACE-716T/C : Less than -1%@-5V and -12V, -4%@+12V
- **Efficiency** :
  - ACE-716A/716AP : Higher than 75%
  - ACE-716T/C : Higher than 70%
- **Hold-up Time (ACE-716A/716AP)** : 20ms (typical)@115V AC
- **Altitude** : 0 ~ 10,000ft
- **Protection** : Over voltage protection. The trip point is around 5.9V ~ 7.0V output
- **Thermal Protection** : Built in 110~5°C thermal switch in HS1
- **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

#### Hi-pot isolation :

- 4300V DC, input to output for one minute
- 2200V DC, input to ground for one minute

#### MTBF :

- ACE-716A : 188,800 hours
- ACE-716T : 212,050 hours
- ACE-716C : 187,490 hours

- **Safety** : Meets UL 478, 1012, 1950;  
CSA 22.2 No. 234, VDE EN 60950

#### EMI :

- Meets FCC docket 20780 curve "A", EN50081-2 : CISPR22 "A"
- Harmonic EN 61000-3-2 for ACE-716AP

#### EMS Standard (Designed to meet the following limits) :

- EN 50082-2
- IEC 801-1 8KV (Air Discharge) criteria B (ACE-716A/716AP)
- IEC 801-3, 10V/M criteria A
- IEC 801-4, 2KV criteria B (ACE-716A/716AP)
- IEC 801-5, 2KV criteria B (ACE-716A/716AP)

#### Built-in cooling fan

- **Operating Temperature** : -20° ~ 70°C  
(Derating curve will occur 50° ~ 70°C)

- **Storage Temperature** : -20° ~ 85°C

- **Dimensions** : 97(W) x 40.5(H) x 198(D)mm;  
(3.8" x 1.6" x 7.8")

### ORDERING INFORMATION

#### ACE-716AP

Rugged AC input 150W PFC power supply

#### ACE-716A

Rugged AC input 150W power supply

#### ACE-716T

Rugged 48V DC input 150W power supply

#### ACE-716C

Rugged 24V DC input 150W power supply

### DIMENSIONS

