

# ACE-716

Rugged AC/DC Input 150W Power Supply



## 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) :

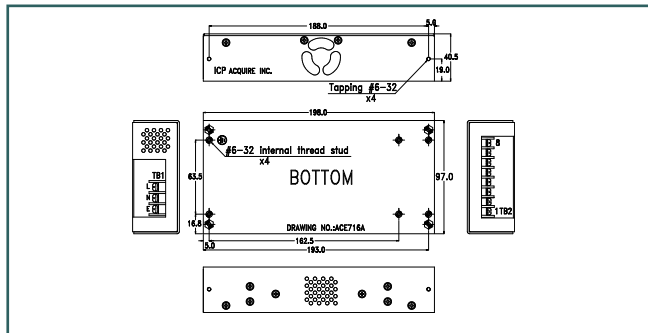
Model	Rated Load				Max. Output			
	+5V	+12V	-5V	-12V	+5V	+12V	-5V	-12V
ACE-716A/716AP	18A	4A	0.5A	1A	25A	10A	1A	1A
ACE-716T	18A	4A	0.5A	1A	25A	10A	0.5A	1.5A
ACE-716C	18A	4A	0.5A	1A	25A	10A	1A	1.5A

- ◆ 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 50C thermal switch in HS1
- ◆ Vibration : 10 ~ 55Hz at 2G 3min. period, 30 min. along X, Y and Z axis
- ◆ Shock : 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-716AP: 149,081 hours  
– ACE-716T: 273,913 hours  
– ACE-716C: 187,490 hours
- ◆ Safety : UL 478, 1012, 1950;(ACE-716A/C/T)  
TUV EN 60950(ACE-716AP/C/T),  
meets CE(ACE-716AP/C/T)
- ◆ 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")

## Dimensions



## 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