

ACE-R20 Series

AC/DC Input Redundant Power Supply Module



ACE-R20T/C



ACE-R20A



- ◆ Efficiency : Higher than 65%
- ◆ Hold-up Time (ACE-R20A):14ms (typical)@115V AC
- ◆ Altitude : 0 ~ 10,000ft
- ◆ Protection :
 - Over voltage protection : The trip point is around 5.7V ~ 7.0V output
 - Short circuit protection
 - Thermal protection with built-in 110±5°C thermal switch in HS1
- ◆ Power Fail Signal : The power fail signal will go low at least 0.5ms before any of the output voltages fall below the regulation limits
- ◆ Power Fail Alarm : It will turn the red LED and beeper when power fail
- ◆ Power Sharing & Redundancy : These power have power sharing and redundancy capability. When doing that the power share line (Pin 32) must connect with each other
- ◆ 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 cooling fan
- ◆ MTBF :
 - ACE-R20A : 131,547 Hours
 - ACE-R20T : 141,323 Hours
 - ACE-R20C : 146,383 Hours
- ◆ Safety : CSA 22.2 No. 234, TUV EN 60950 (ACE-R20C, ACE-R20T) meets CE(ACE-R20C, ACE-R20T)
- ◆ EMI : Meets FCC docket 20780 curve "B", EN55022 class "B"
- ◆ EMS Standard (Designed to meet the following limits) :
 - IEC 801-2 8KV (Air Discharge) criteria B
 - IEC 801-3, 10V/M criteria A
 - IEC 801-4, 2KV criteria B
 - IEC 801-5, 2KV criteria B (ACE-R20A)
- ◆ Operating temperature : -20° ~ 70°C (Derating curve will occur 45° ~ 70°C)
- ◆ Storage temperature : -40° ~ 75°C

SPECIFICATIONS



◆ Input Table :

Model	Input Range	Input Current
ACE-R20A	85~265V AC,47~63Hz	4A@115V AC or 2A@230V AC
ACE-R20T	-36~-72V DC	8A@-48V DC
ACE-R20C	+19~+30V DC	16A@+24V DC

◆ Output Table : (at 40°C)

Model	Output Range				Peak Output			
	+5V	+12V	-12V	-5V	+5V	+12V	-12V	-5V
ACE-R20A	20A	4A	0.5A	0.5A	25A	6A	1A	1A
ACE-R20T	20A	4A	0.5A	0.5A	25A	6A	1A	1A
ACE-R20C	20A	4A	0.5A	0.5A	25A	6A	1A	1A

- ◆ Ripple and Noise : Less than 140mV@+12V and 1%@Others
- ◆ Line Regulation : Less than 2%@+12V, 1%@Others
- ◆ Load Regulation

Model	+5V	+12V	-12V	-5V
ACE-R20A	<±3%	<±5%	<±2%	<±2%
ACE-R20T	<±3%	<±5%	<±2%	<±2%
ACE-R20C	<±3%	<±5%	<±2%	<±2%

ORDERING INFORMATION

- **ACE-R20A**
AC input redundant power supply module
- **ACE-R20T**
48V DC input redundant power supply module
- **ACE-R20C**
24V DC input redundant power supply module

ACE-RC02/03/04/12

Redundant Power Supply Case for ACE-R20 Series



ACE-RC02



ACE-RC03



ACE-RC04



ACE-RC12



ORDERING INFORMATION

- **ACE-RC02**
Vertical dual redundant power supply case
- **ACE-RC03**
Vertical triple redundant power supply case
- **ACE-RC04**
Vertical quad redundant power supply case
- **ACE-RC12**
Horizontal dual redundant power supply case