

ACE-830APU1 ACE-840APU2

300W ATX Power Supply

400W ATX Power Supply

ACE-830CU1 ACE-830TU1 ACE-830VU1

300W 24V DC Input ATX Power Supply

300W 48V DC Input ATX Power Supply

170W 12V DC Input ATX Power Supply

PFC



ACE-830APU1

PFC



ACE-840APU2



ACE-830CU1/TU1/VU1

SPECIFICATIONS



◆ Input Range:

Model	Input Range	Input Current
ACE-830APU1	90V~264V AC	
ACE-840APU2	90V~264V AC	
ACE-830CU1	+18~ +36V DC	30A @+24V DC
ACE-830TU1	-36~ -72V DC	15A @-48V DC
ACE-830VU1	+10~ +18V DC	30A @+12V DC

◆ Output Rating:

ACE-830APU1

Nominal	Regulation	Ripple/ Noise	Min. Load	Max. Load	Peak Load
+3.3V	±5%	50mV	0	20A	25A
+5V	+5/-4%	50mV	0.5A	28A	40A
+12V	±5%	120mV	0.5A	16A	20A
-5V	±5%	50mV	0	0.5A	
-12V	+8/-5%	120mV	0	1A	
+5Vsb	±5%	50mV	0	2A	

The output of +3.3V and +5V shall not exceed 140W. Total output maximum 300W.

ACE-830CU1/TU1/VU1, ACE-840APU2

Nominal	Regulation	Ripple/ Noise	ACE-830CU1		ACE-830TU1		ACE-830VU1		ACE-840APU2	
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
+3.3V	±5%	50mV	-	20A	-	20A	-	10A	-	28A
+5V	±5%	50mV	3A	25A	3A	25A	3A	15A	3A	33A
+12V	±5%	120mV	1A	22A	1A	22A	1A	10A	1A	22A
-5V	±5%	50mV	-	0.8A	-	0.8A	-	0.5A	-	0.5A
-12V	±10%	120mV	-	1A	-	1A	-	0.8A	-	1A
+5Vsb	±5%	100mV	-	1.5A	-	1.5A	-	1.5A	-	2A

ACE-830CU1: The output of +3.3V and +5V shall not exceed 180W.

+3.3V, +5V and +12V total output power maximum is 296W.

ACE-830TU1: The output of +3.3V and +5V shall not exceed 180W.

+3.3V, +5V and +12V total output power maximum is 296W.

ACE-830VU1: The output of +3.3V and +5V shall not exceed 100W.

+3.3V, +5V and +12V total output power maximum is 160W.

ACE-840APU2: The output of +3.3V and +5V shall not exceed 200W.

+3.3V, +5V and +12V total output power maximum is 380W.

◆ Hold-up time : 16ms min. (ACE-840APU2) / 20ms min. (ACE-830APU1)

◆ Efficiency : 65% typ. (ACE-840APU2) / 70% typ. (ACE-830APU1)
60%(ACE-830VU1,ACE-830CU1) 65%(ACE-830TU1)

◆ Protection : Over Voltage/Load Protection and short circuit protection .

◆ TTL signal compatible power good signal .

◆ 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 .

◆ Built-in cooling fan .

◆ M.T.B.F. : Minimum 100000 hours at 25oC

◆ Safety : UL 1950, TUV, meets CE

◆ EMI : FCC parts 15 class "B" , CISPR 22 level "B"
Active PFC, complies with EN 61000-3-2

◆ EMS : EN 50082-1 immunity standard, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

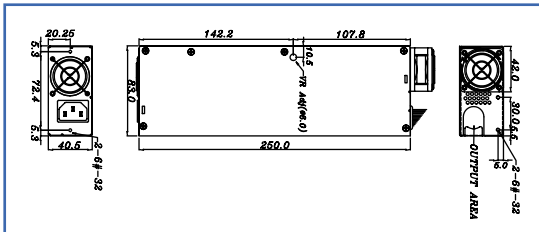
◆ Operating temperature : -0~50°C -0~70°C (ACE-830APU1)

◆ Storage temperature : -20~80°C

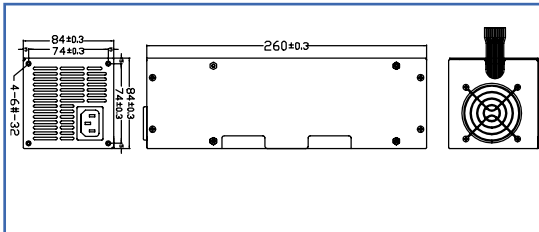
◆ Power connectors

	ACE-830APU1	ACE-840APU2	ACE-830CU1/TU1/VU1
20 PIN ATX	1	1	1
4 PIN ATX-12V	1	1	1
Extra +5V	1	1	1
HDD or CD-ROM	5	5	5
Floppy	1	2	1

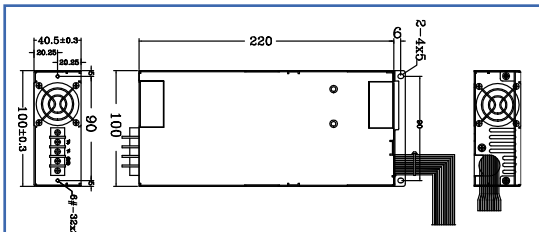
Dimensions (ACE-830APU1)



Dimensions (ACE-840APU2)



Dimensions (ACE-830CU1/TU1/VU1)



ORDERING INFORMATION

- ACE-840APU2 400W ATX Power Supply With PFC Function
- ACE-830APU1 300W ATX Power Supply with PFC function
- ACE-830CU1 300W 24VDC ATX Power Supply
- ACE-830TU1 300W 48VDC ATX Power Supply
- ACE-830VU1 170W 12VDC ATX Power Supply