

# POWER DIVISION

>> iStarUSA only uses cutting-edge technology in switching power supply design. Including over power, over voltage, and short circuit protection circuits. We meet the EPS 12V and ATX 12V 2.0 standard by using the dedicated 12V and dual 12V outputs technology. Our R&D department has a team of design engineers with over 20 years of combine experience and specialize in redundant application. iStarUSA has multiple patents across China, Taiwan, USA, and Germany. Our customers recognize iStarUSA as a good start for their ODM power supply manufacturer.

*iStar, Good Start!*

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### **Mini Redundant Series**

- R8 Series
- R8A Series
- R3N Series

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### **1U/2U Redundant Series**

- R2U Series
- S2U Series

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### **1U/2U/3U Switching Series**

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### **ITX Switching Series**

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### **PS2 Switching**

- PD1 Series
- PD3 Series
- PD2 Series

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### **Raid Storage Series**

- R8-Raid Series
- R3N-Raid Series

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### **Power Cable Series**

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# TC-300R8 TC-400R8 TC-300R8-B

300/400W (Black) PS/2 Size Mini Redundant Power Supply



## INTRODUCTION

With its Hot-Swap & Power Sharing features, the TC-300R8(B) and TC-400R8 can significantly increase the reliability of a computer system and minimize the total down time. The TC-300R8(B) and TC-400R8 are the ideal power sources for telecommunications systems and industrial systems, as well as for a variety of other mission critical applications.

## FEATURES

- PS/2 Size Design
- Hot-Swappable & Power Sharing Capability
- Auto Select AC Input
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection

- Ⓐ High Performance Air Side Vent
- Ⓑ Dual Release Latch
- Ⓒ Module Status LED
- Ⓓ Industrial German Connector
- Ⓔ Alarm LED
- Ⓕ Alarm Reset Switch
- Ⓖ Power Switch
- Ⓗ AC Input Fuse



NO. of Fans: 40mm x 4, 80mm x 1  
Air Flow CFM: 6.9/41  
Net Weight: 9 lb

# TC-300R8-B TC-400R8

## DRAWING



20+4 Pin Connector



4 Pin Connector



3 External Status LED



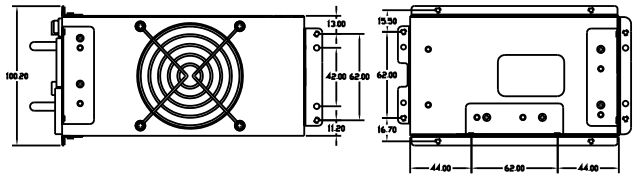
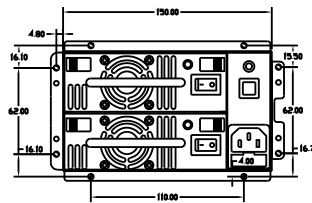
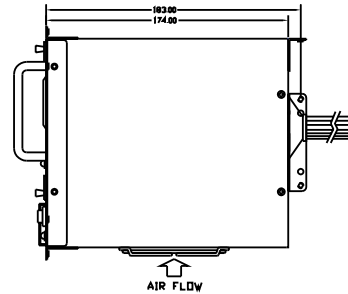
8 Pin Connector



Peripheral Connector



Floppy Connector



## SPECIFICATIONS

Model Number	TC-300R8	TC-300R8-B	TC-400R8
RoHS Compliance Version	Yes		
Output Power	300W	300	400
AC Input	90V to 132V or 180V to 264V auto selectable 47Hz ~ 63Hz		
Main Connector	20+4 Pin		24 Pin
12V Connectors	8-Pin / 4-Pin		
Dimensions [WxHxD]	150 x 86 x 174 mm		

## OUTPUT TABLE

Voltage		+3.3V	+5V	+12V	-12V	-5V	+5Vsb
Max Load	TC-300R8	24A	30A	15A	0.8A	0.5A	2A
	TC-300R8-B	24A	30A	15A	0.8A	0.5A	2A
	TC-400R8	24A	35A	18A	0.8A	0.5A	2A
Min Load		0.3A	3A	2A	0.1A	0.1A	0.1A
Regulation		±0%	±5%	±5%	±0%	±5%	±5%
Ripple (mV)		50	50	120	120	50	50

## COMPARTIBLE CHASSIS

**D-STORM 4U SERIES** / D-400, D-400-6, D-400AL, D-400-6AL, D-400L, D-410  
**S-STORM TOWER SERIES** / S-10000L, S-10000, S-9000, S-8, S-9

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007



# TC-300R8A TC-400R8A TC-500R8A

300/400/500W PS/2 Dual AC Mini Redundant Power Supply



## INTRODUCTION

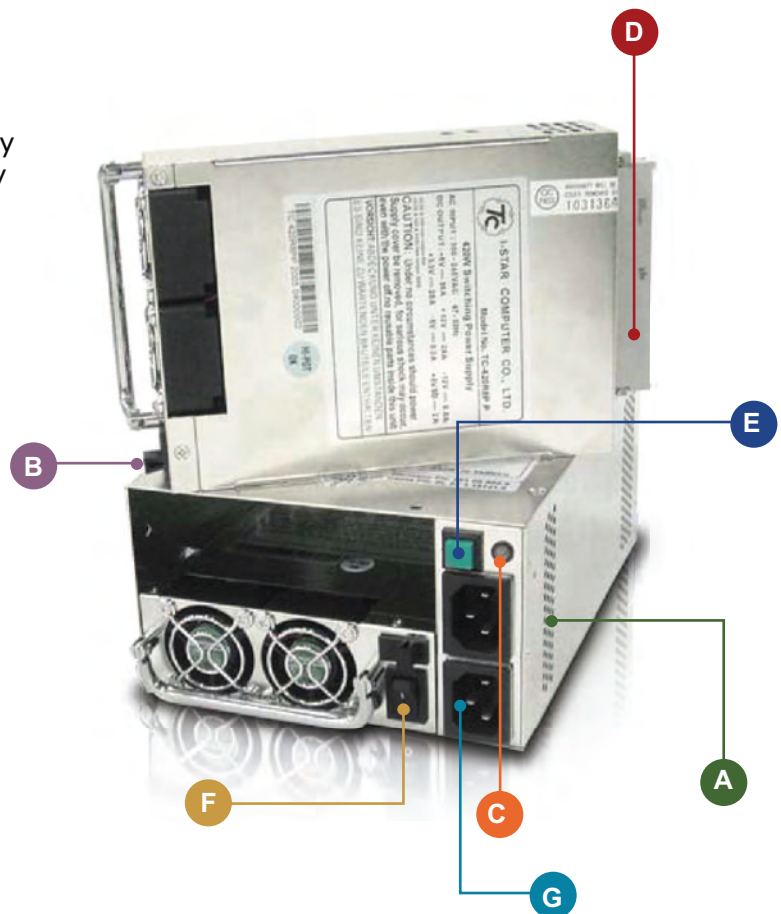
With its Hot-Swap & Power Sharing features, the R8A Series can significantly increase the reliability of a computer system and minimize the total down time. The R8A Series is the ideal power source for telecommunications systems and industrial systems, as well as for a variety of other mission critical applications.

## FEATURES

- PS/2 Size Design
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection
- Auto Select AC Input
- Hot-Swappable & Power Sharing Capability
- Real Dual AC Input Design: AC-1: Primary Source, AC-2: Secondary Source

- Ⓐ Air Cell Vent
- Ⓑ Signal Release Latch
- Ⓒ Module Status LED
- Ⓓ Industrial Grade Connector
- Ⓔ Alarm reset Switch
- Ⓕ Power Switch
- Ⓖ AC Input Fuse

NO. of Fans: 40 mm x 4  
Air Flow CFM: 7.3  
Net Weight: 8.4 lb



# TC-500R8A TC-300R8A TC-400R8A

## DRAWING



20+4 Pin Connector



4 Pin Connector



3 External Status LED



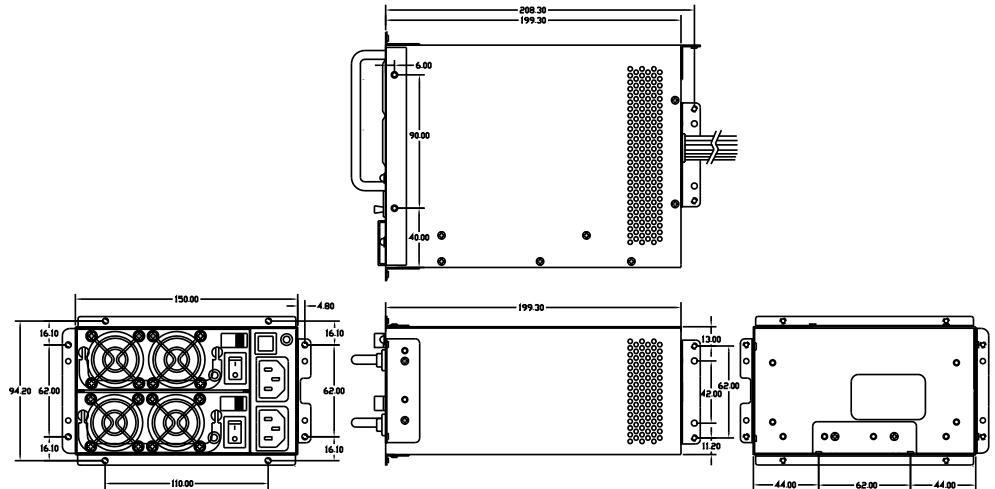
8 Pin Connector



Peripheral Connector



Floppy Connector



## SPECIFICATIONS

Model Number	TC-300R8A	TC-400R8A	TC-500R8A
RoHS Compliance Version	Yes		
Output Power	300W	400	500
AC Input	90V to 132V or 180V to 264V auto selectable 47Hz ~ 63Hz		
Main Connector	20+4 Pin		
12V Connectors	8-Pin / 4-Pin		
Dimensions [WxHxD]	150 x 86 x 200 mm		

## OUTPUT TABLE

Voltage	+3.3V	+5V	+12V	-12V	-5V	+5Vsb	
Max Load	TC-300R8A	24A	30A	15A	0.8A	0.5A	2A
	TC-400R8A	24A	35A	18A	0.8A	0.5A	2A
	TC-500R8A	24A	42A	28A	0.8A	0.5A	2A
Min Load	0.3A	3A	2A	0.1A	0.1A	0.1A	
Regulation	±0%	±5%	±5%	±0%	±5%	±5%	
Ripple (mV)	50	50	120	120	50	50	

## COMPARTIBLE CHASSIS

**D-STORM 4U SERIES** / D-400, D-400-6, D-400AL, D-400-6AL, D-400L, D-410  
**S-STORM TOWER SERIES** / S-10000L, S-10000, S-9000

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007



# TC-600R3N TC-700R3N

600/700W PS/2 Size Mini Redundant Power Supply



## INTRODUCTION

The R3N Series products of N+1 Hot-Swap & Power Sharing redundant Power supply provides increased reliability when integrated a variety of Systems. The R3N series is ideally suited to telecommunications and Industrial system, as well as a variety of other applications where system never shut down, i.e. Zero down time.

## FEATURES

- Hot-Swappable & Power Sharing capability
- Active PFC
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection

- Ⓐ Aluminum Modules
- Ⓑ Signal Release Latch
- Ⓒ Industrial German Connector
- Ⓓ Module Status LED
- Ⓔ Alarm Reset Switches
- Ⓕ Triple Independent AC Inputs



NO. of Fans: 40mm x 3  
Air Flow CFM: 18.9  
Net Weight: 12.9 lb





# TC-350R2U TC-400R2U

## 350/400W 2U Redundant Power Supply



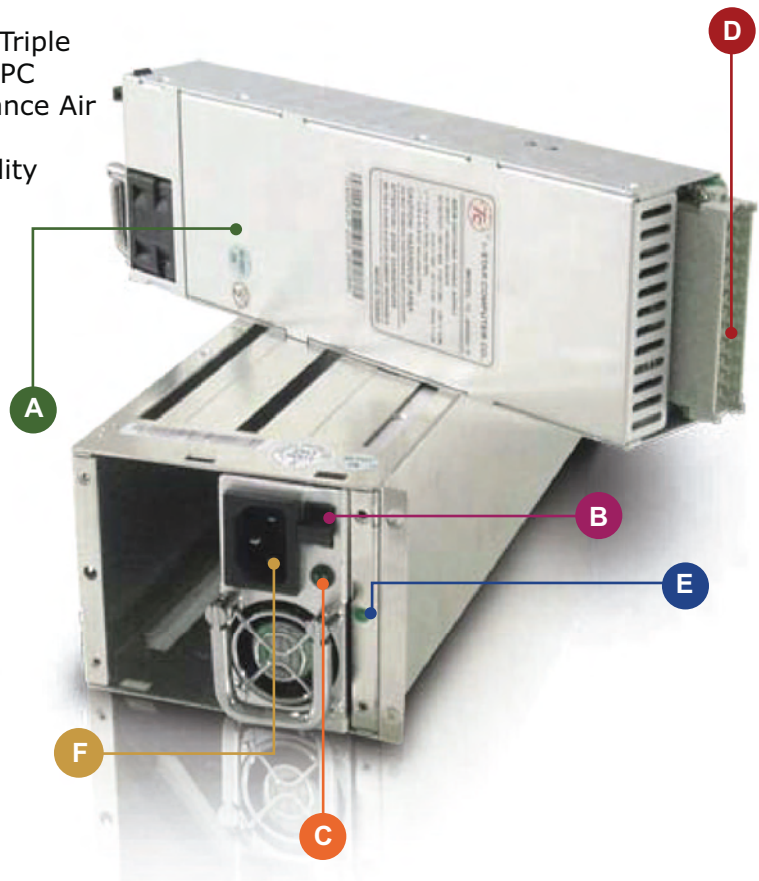
### INTRODUCTION

The R2U series products provide power redundancy for 2U or 3U Rackmount server. For many mission critical systems, this series power supply is a most-have component to ensure the highest uptime. A careful engineering job has been done on this new series to provide you the easy installation and easy maintenance features.

### FEATURES

- Standard Active PFC, Load Sharing and Triple Circuits Protection Design for Industrial PC
- Aluminum Module Hosting and Performance Air Vent for Exceptional Cooling
- Hot-Swappable & Power Sharing Capability
- Dual AC Inputs
- Over Power Protection
- Over Voltage Protection

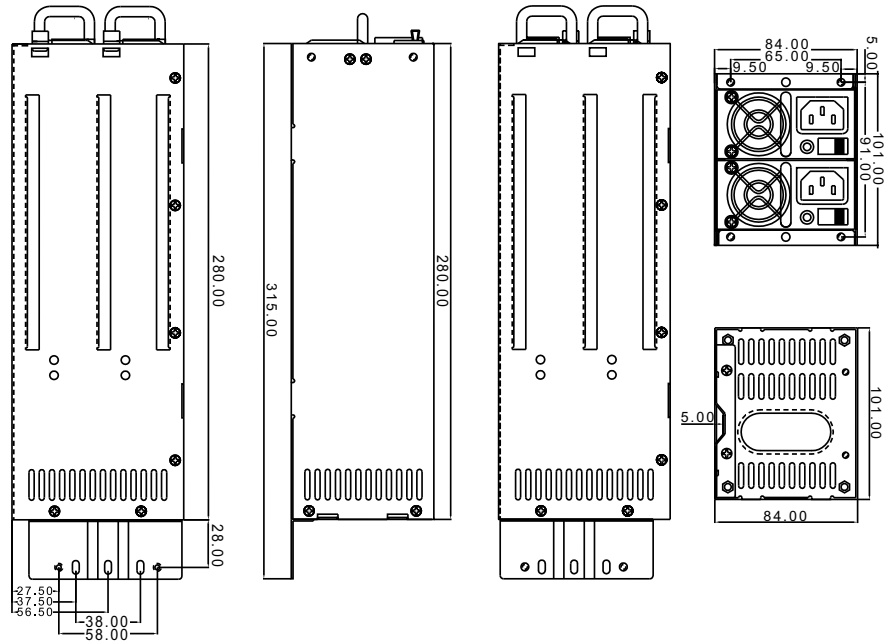
- Ⓐ Aluminum Modules
- Ⓑ Signal Release Latch
- Ⓒ Module Status LED
- Ⓓ Industrial German Connector
- Ⓔ Alarm Reset Switch
- Ⓕ AC Input Fuse



NO. of Fans: 40 mm x 2  
Air Flow CFM: 18.9  
Net Weight: 9.5 lb

# TC-350R2U TC-400R2U

## DRAWING



## SPECIFICATIONS

Model Number	TC-350R2U	TC-400R2U
RoHS Compliance Version	Yes	
Output Power	350W	400W
AC Input	100 to 240 Vac Full range	
Main Connector	24 Pin	
12V Connectors	8-Pin / 4-Pin	
Dimensions [WxHxD]	101 x 84 x 280 mm	

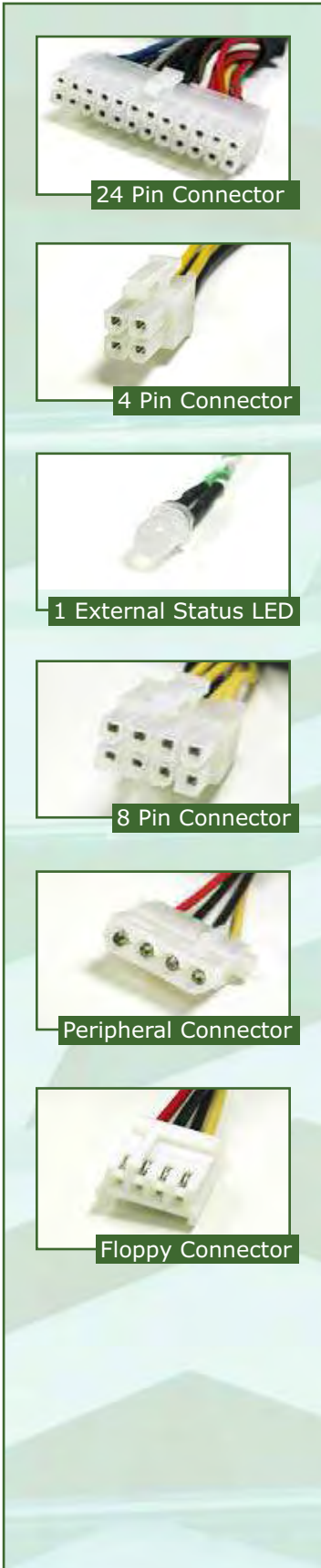
## OUTPUT TABLE

Voltage		+3.3V	+5V	+12V	-12V	-5V	+5Vsb
Max Load	TC-350R2U	20A	35A	22A	0.8A	0.5A	2A
	TC-400R2U	20A	40A	28A	0.8A	0.5A	1.5A
Min Load		1A	3A	2A	0.1A	0.1A	0.1A
Regulation		±0%	±5%	±5%	±0%	±5%	±5%
Ripple (mV)		50	50	120	120	50	50

## COMPARTIBLE CHASSIS

**D-STORM 2U SERIES / D-200, D-200L**  
**D-STORM 3U SERIES / D-300, D-300L, D-300AL**

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007



24 Pin Connector

4 Pin Connector

1 External Status LED

8 Pin Connector

Peripheral Connector

Floppy Connector

# TC-500S2U

500W 2U Redundant Power Supply



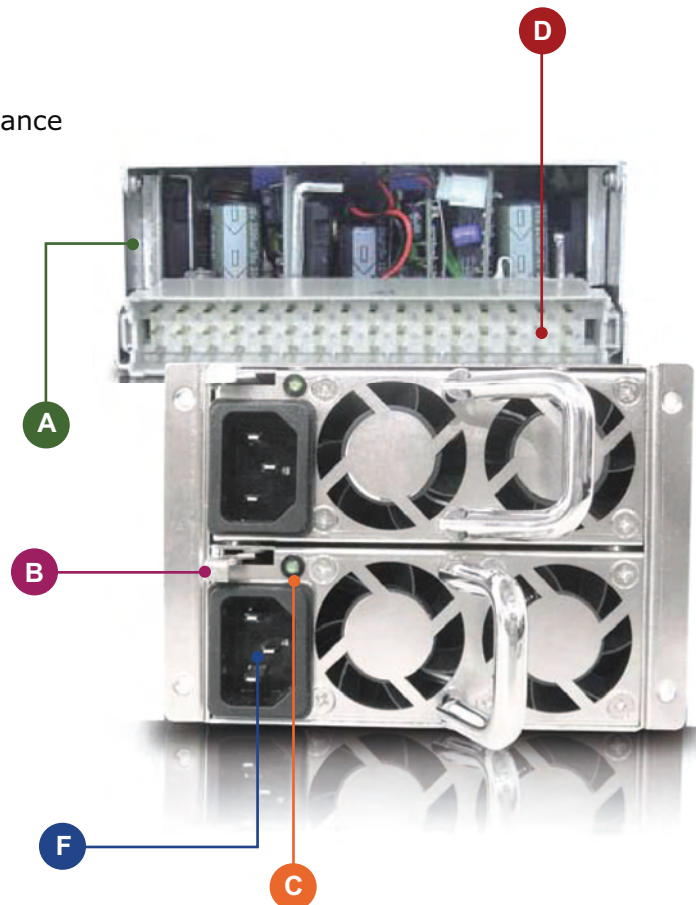
## INTRODUCTION

The new TC-500S2U redundant power supply comes with dual AC inputs, triple circuit protections, and aluminum module housing. Active PFC ensures high efficiency and energy saving benefit. TC-500S2U provides the reliability and performance for your server and mission critical application.

## FEATURES

- Load Sharing Design for Smart Stress and Heat Distribution
- Aluminum Module Hosting and Performance  
Air Vent for exceptional cooling
- Dual +12V Dedicated Circuitry
- 16ms Hold Up Time
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection

- Ⓐ Aluminum Modules
- Ⓑ Signal Release Latch
- Ⓒ Module Status LED
- Ⓓ Industrial German Connector
- Ⓔ AC Input Fuse



NO. of Fans: 40 mm x 4  
Active PFC

# TC-500S2U

## DRAWING



20+4 Pin Connector



4 Pin Connector



PCI-Express



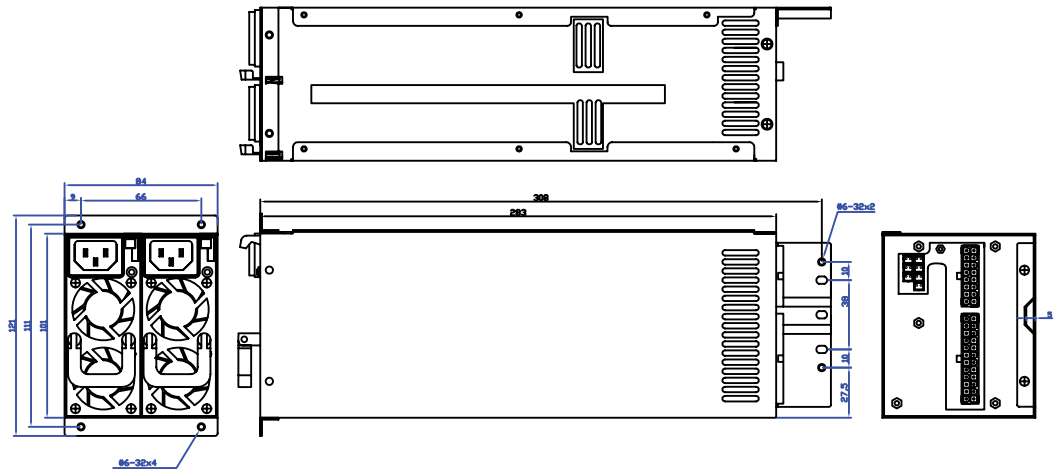
8 Pin Connector



Peripheral Connector



Floppy Connector



## SPECIFICATIONS

<b>Model Number</b>	<b>TC-500S2U</b>
<b>RoHS Compliance Version</b>	Yes
<b>Output Power</b>	500W
<b>AC Input</b>	90V to 132V or 180V to 264V auto selectable 47Hz ~ 63Hz
<b>Main Connector</b>	20+4 Pin
<b>12V Connectors</b>	8-Pin / 4-Pin
<b>Dimensions [WxHxD]</b>	101 x 84 x 280 mm

## OUTPUT TABLE

Voltage	+3.3V	+5V	+12V	+12V1	-12V	+5Vsb
<b>Max Load</b>	22A	35A	16A	16A	0.8A	1.5A
<b>Min Load</b>	1A	2A	1.5A	1A	0.1A	0.1A
<b>Regulation</b>	±0%	±5%	±5%	±5%	±0%	±5%
<b>Ripple (mV)</b>	50	50	120	120	120	50

## COMPARTIBLE CHASSIS

**D-STORM 2U SERIES / D-200, D-200L**  
**D-STORM 3U SERIES / D-300, D-300L, D-300AL**

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007



## TC-1U/25 TC-1U/35 TC-1U/40

250/350/400W 1U Switching Power Supply



### INTRODUCTION

Introduce the industrial graded TC-1U/25, TC-1U/35, TC-1U/40 1U switching power supplies. Design to fit perfectly into your 1U rackmount chassis. Feature such as dual fan cooling System, triple circuit protections and PFC options. TC-1U/25, TC-1U/35, TC-1U/40 is the most compact and versatile 1U power supply.

### FEATURES

- Power Range Auto Select
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection
- Nickel Plated Enclosure to Provide Corrosion Resistance
- 16ms Hold Up Time
- Optional Quiet Version to Reduce Noise Down to 26dB

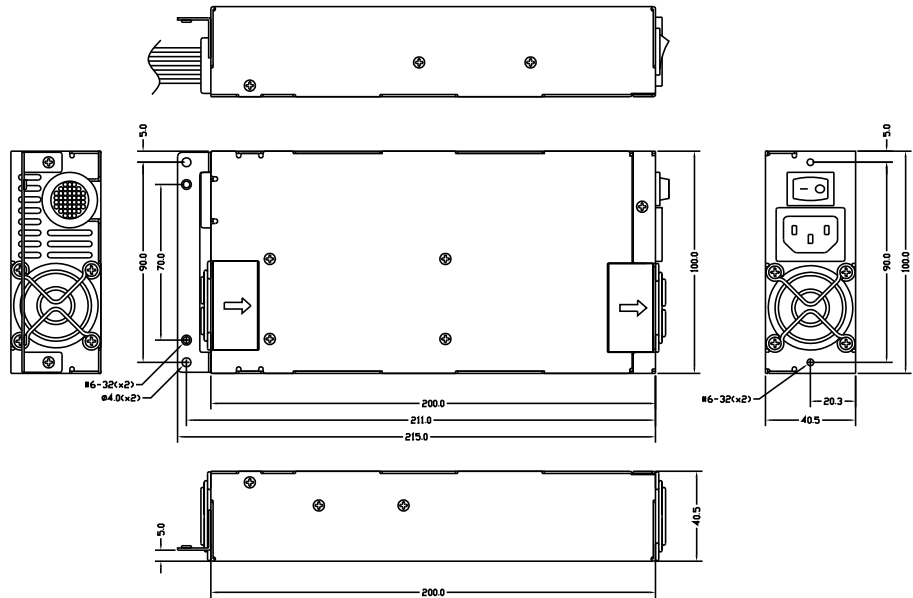
- Ⓐ Power Switch
- Ⓑ AC Input Fuse



NO. of Fans: 40 mm x 2  
Air Fow CFM: 10.7  
Net Weight: 4 lb

# TC-1U/25 TC-1U/35 TC-1U/40

## DRAWING



## SPECIFICATIONS

Model Number	TC-1U/25	TC-1U/35	TC-1U/40
RoHS Compliance Version	Yes		
Output Power	250W	350W	400W
AC Input	90V to 132V or 180V to 264V auto selectable 47Hz ~ 63Hz		
Main Connector	20 Pin	20+4 Pin	20+4 Pin
12V Connectors	4 Pin	8 Pin/4 Pin	8 Pin/4 Pin
Dimensions [WxHxD]	100 x 40.5 x 200 mm		

## OUTPUT TABLE

Voltage	+3.3V	+5V	+12V	-12V	-5V	+5Vsb
Max Load	TC-1U/25	20A	25A	12A	0.8A	2A
	TC-1U/35	20A	35A	16A	0.8A	2A
	TC-1U/40	20A	40A	18A	0.8A	2A
Min Load	1A	3A	2A	0.1A	0.1A	0.1A
Regulation	±0%	±5%	±5%	±0%	±5%	±5%
Ripple (mV)	50	50	120	120	50	50

## COMPARTIBLE CHASSIS

**D-STORM 1U SERIES / D-106, D-107**

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007



20 Pin Connector



4 Pin Connector



8 Pin Connector



Peripheral Connector



Floppy Connector

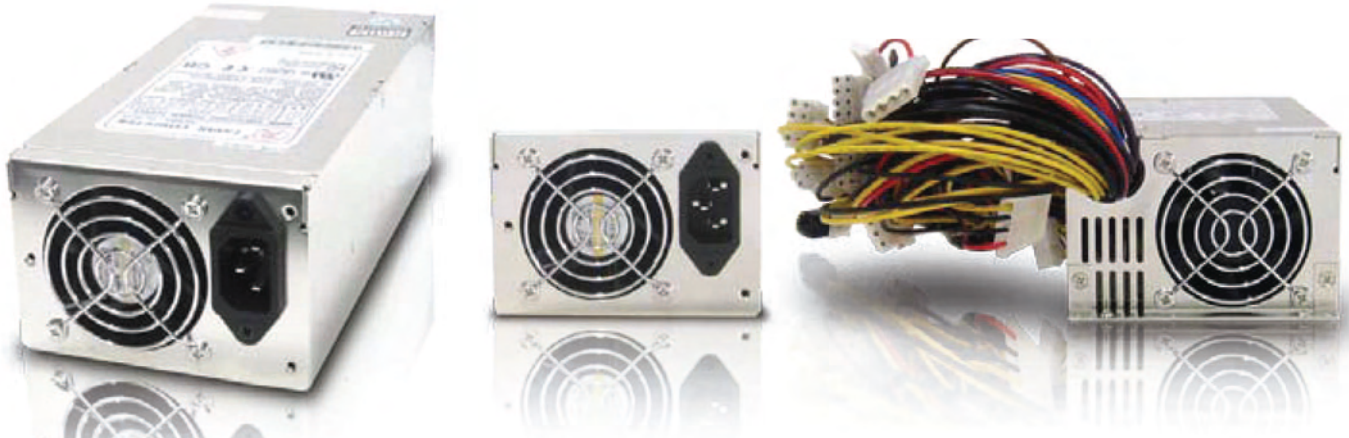


20+4 Pin Connector

\*TC-1U/40, TC1U/35 ONLY

## TC-2U/35 TC-2U/40 TC-2U/46

### 350/400/460W 2U Switching Power Supply



#### INTRODUCTION

Introduce the industrial graded TC-2U/35, TC-2U/40, TC-2U/46 switching power supplies design to fit perfectly into your 2U rackmount chassis. Dual fan cooling system, triple circuit protections and PFC options. TC-2U/35, TC-2U/40, TC-2U/46 offer unswerving performance for your 2U chassis.

#### FEATURES

- Power Range Auto Select
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection
- Nickel Plated Enclosure to Provide Corrosion Resistance
- 16ms Hold Up Time
- Optional Quiet Version to Reduce Noise Down to 26dB

- Ⓐ Fan
- Ⓑ AC Input Fuse



NO. of Fans: 60 mm x 2  
Air Fow CFM: 22.9  
Net Weight: 4.1 lb

# TC-2U/35 TC-2U/40 TC-2U/46

## DRAWING



20+4 Pin Connector



4 Pin Connector



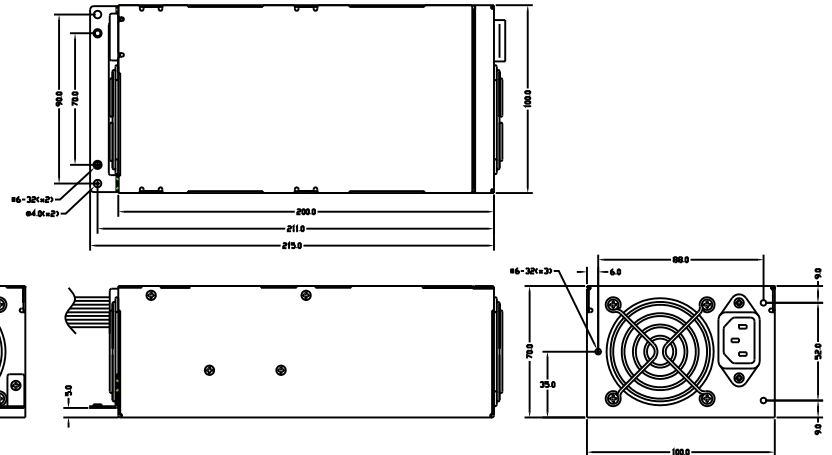
8 Pin Connector



Peripheral Connector



Floppy Connector



## SPECIFICATIONS

Model Number	TC-2U/35	TC-2U/40	TC-2U/46
RoHS Compliance Version	Yes		
Output Power	350W	400W	460W
AC Input	90V to 132V or 180V to 264V auto selectable 47Hz ~ 63Hz		
Main Connector	20+4 Pin		
12V Connectors	8Pin / 4 Pin		
Dimensions [WxHxD]	100 x 73 x 200 mm		

## OUTPUT TABLE

Voltage	+3.3V	+5V	+12V	-12V	-5V	+5Vsb	
Max Load	TC-2U/35	20A	35A	18A	0.8A	0.5A	2A
	TC-2U/40	20A	40A	20A	0.8A	0.5A	2A
	TC-2U/46	20A	40A	24A	0.8A	0.5A	2A
Min Load	1A	3A	2A	0.1A	0.1A	0.1A	
Regulation	±0%	±5%	±5%	±0%	±5%	±5%	

## COMPATIBLE CHASSIS

**D-STORM 2U SERIES / D-200, D-200L**

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007





# TC-2U/55P

## 550W 2U Switching Power Supply



### INTRODUCTION

Introduce the industrial graded TC-2U/55P Series power supply. Design to power your high performance and compact 2U rackmount system. Total power of 550 watts, TC-2U/55P equipped with 60mm fan cooling System, triple circuit protections and Active PFC with universal inputs. TC-2U/55P offer unswerving performance for your 2U system.

### FEATURES

- Universal AC Inputs for EU and Asia
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection
- Active PFC for High Efficiency
- Nickel Plated Enclosure to Provide Corrosion Resistance
- 16ms Hold Up Time
- PCI-Express Connector Support High End Graphic Card

- Ⓐ Fan
- Ⓑ AC Input Fuse



NO. of Fans: 60 mm x 1  
Active PFC

# TC-2U/55P

## DRAWING



24 Pin Connector



4 Pin Connector



8 Pin Connector



Peripheral Connector



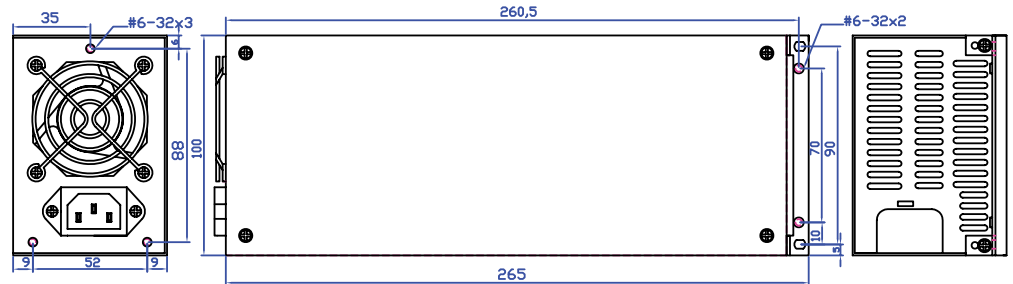
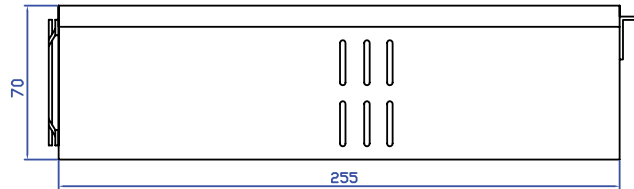
Floppy Connector



PCI-Express



SATA Connector



## SPECIFICATIONS

<b>Model Number</b>	<b>TC-2U/55P</b>
<b>RoHS Compliance Version</b>	Yes
<b>Output Power</b>	550W
<b>AC Input</b>	90V to 264V Full Range 47Hz'63Hz
<b>Main Connector</b>	24 Pin
<b>12V Connectors</b>	8 Pin / 4 Pin
<b>Dimensions [WxHxD]</b>	100 x 70 x 255 mm

## OUTPUT TABLE

Voltage	+3.3V	+5V	+12V	-12V	-5V	+5Vsb
<b>Max Load</b>	28A	30A	40A	0.8A	0.3A	2A
<b>Min Load</b>	1A	1A	1A	0.1A	0.1A	0.1A
<b>Regulation</b>	±0%	±5%	±5%	±0%	±5%	±5%
<b>Ripple (mV)</b>	50	50	120	120	50	50

## COMPARTIBLE CHASSIS

**D-STORM 2U SERIES / D-200, D-200L**  
**D-STORM 3U SERIES / D-300, D-300L**

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007



# TC-3U/30 TC-3U/40 TC-3U/46

300/400/460W 3U Switching Power Supply



## INTRODUCTION

Introduce the industrial graded TC-3U/30, TC-3U/40, TC-3U/46 switching power supplies. Design to fit perfectly into your 3U rackmount chassis. Triple circuits protections and PFC to provide best performance and protection. TC-3U/30, TC-3U/40, TC-3U/46 combined reliability and performance for your 3U Chassis.

## FEATURES

- Power Range Auto Select
- Over Power Protection
- Over Voltage Protection
- Short Circuits Protection
- Nickel Plated Enclosure to Provide Corrosion Resistance
- 16ms Hold Up Time
- Optional Quiet Version to Reduce Noise Down to 26dB

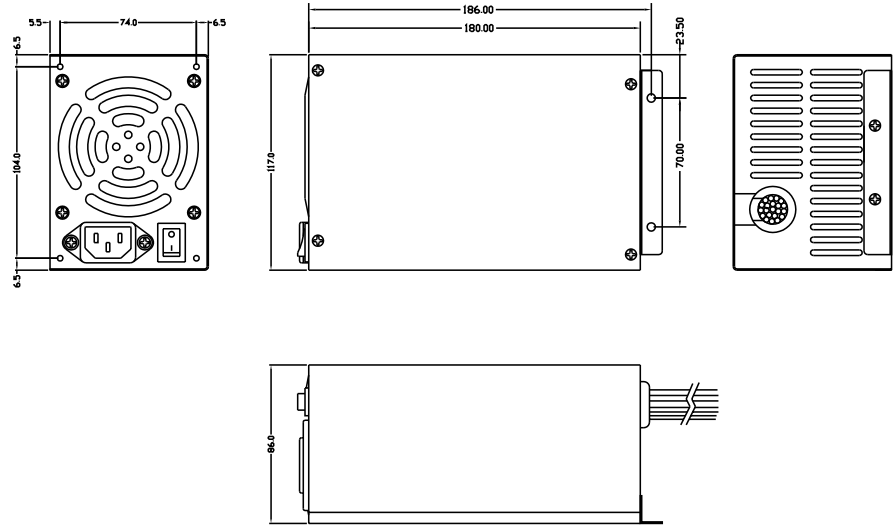
- Ⓐ Fan
- Ⓑ AC Input Fuse
- Ⓒ Power Switch



NO. of Fans: 80 mm x 1  
Air Flow CFM: 39.4  
Net Weight: 4.3 lb

# TC-3U/30 TC-3U/46 TC-3U/40

## DRAWING



20+4 Pin Connector



4 Pin Connector



Peripheral Connector



Floppy Connector



8 Pin Connector



24 Pin Connector

\*TC-3U/46 ONLY

## SPECIFICATIONS

Model Number	TC-3U/30	TC-3U/40	TC-3U/46
RoHS Compliance Version	Yes		
Output Power	300W	400W	460W
AC Input	90V to 132V or 180V to 264V auto selectable 47Hz ~ 63Hz		
Main Connector	20+4 Pin	20+4 Pin	24 Pin
12V Connectors	4 Pin	4 Pin	8 Pin
Dimensions [WxHxD]	117 x 86 x 180 mm		

## OUTPUT TABLE

Voltage		+3.3V	+5V	+12V	-12V	-5V	+5Vsb
Max Load	TC-3U/30	20A	30A	15A	0.8A	0.5A	2A
	TC-3U/40	20A	40A	15A	0.8A	0.5A	2A
	TC-3U/46	20A	40A	24A	0.8A	0.5A	2A
Min Load		0.3A	3A	2A	0.1A	0.1A	0.1A
Regulation		±0%	±5%	±5%	±0%	±5%	±5%

## COMPARTIBLE CHASSIS

**E-STORM 3U SERIES / E-30**  
**D-STORM 3U SERIES / D-300, D-300L, D-300AS, D-300AL**

- :: Operation Temperature: 0°C to 50°C
- :: Humidity: 5 to 90°C non-condensing
- :: Specification and wiring diagram subject to change without notice
- :: 3 year standard Warranty
- :: Last Update: Oct/2007



# IX-87

## 90/120W ITX Switching Power Supply



### INTRODUCTION

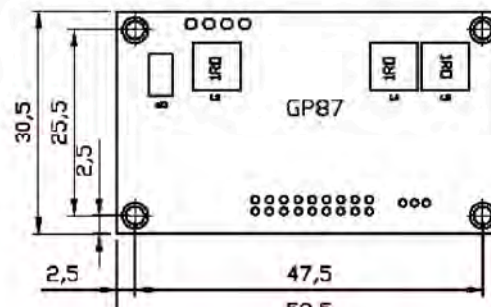
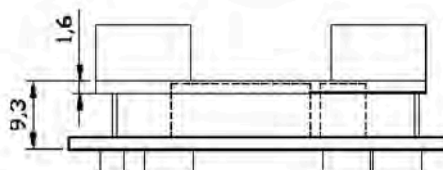
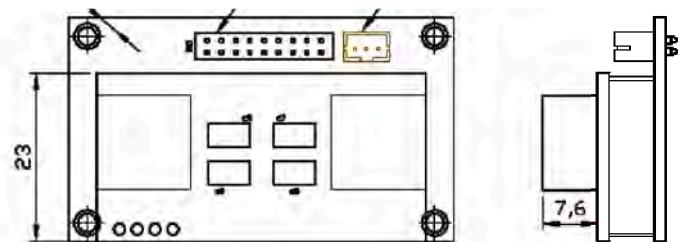
IX-87 ITX DC-DC switching power supply is ultra compact and high efficiency. Up to 92% efficiency, and maximum of 120 watts supports VIA, AMD, INTEL embedded, mobile, and core duo processors. High compatibility to mini-ITX, nano-ITX, and pico-ITX motherboard provide solution to mobile PC, medical, aviation, industrial PC, and military applications. iStarUSA provides OEM/ODM solutions for wide variety of industries.

### FEATURES

- Ⓐ Compact Design for mini-ITX and 1U Case
- Ⓑ Fanless DC-DC Solution for 100% Mute Operating
- Ⓒ Ideal for Intel Core Duo and mini-ITX / nano-ITX / pico-ITX Mainboard
- Ⓓ Integrated with Latest 18-pin + 3-pin PHD Socket for Saving Space
- Ⓔ Over Power Protection
- Ⓕ Over Voltage Protection
- Ⓖ Short Circuits Protection

### SPECIFICATION

<b>Model Number</b>	<b>IX-87</b>
<b>RoHS Compliance Version</b>	Yes
<b>Output Power [w/ Fanless]</b>	90W
<b>Output Power</b>	120W
<b>Main Connector</b>	20 Pin
<b>Dimension [WxHxD]</b>	56 x 30.5 x 21.5 mm



# IX-88

## 90/120W ITX Switching Power Supply

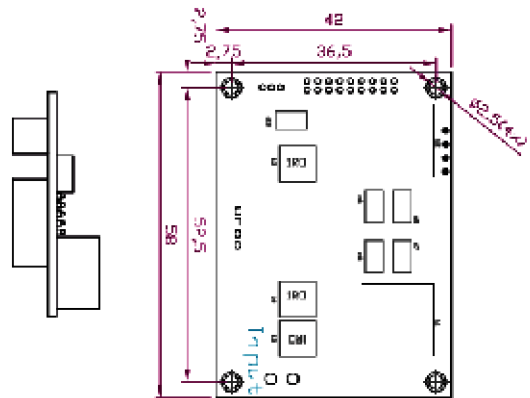


### INTRODUCTION

IX-88 ITX DC-DC switching power supply is ultra compact and high efficiency. Up to 92% efficiency, and maximum of 120 watts supports VIA, AMD, INTEL embedded, mobile, and core duo processors. High compatibility to mini-ITX, nano-ITX, and pico-ITX motherboards provide solution to mobile PC, medical, aviation, industrial PC, and military applications. iStarUSA provides OEM/ODM solutions for wide variety of industries.

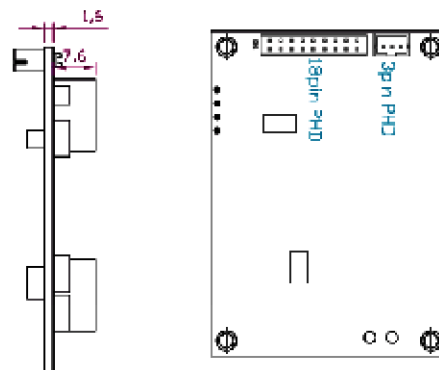
### FEATURES

- A Compact Design for mini-ITX and 1U Case
- B Fanless DC-DC Solution for 100% Mute Operating
- C Ideal for Intel Core Duo and mini-ITX / nano-ITX / pico-ITX Mainboard
- D Integrated with Latest 18-pin + 3-pin PHD Socket for Saving Space
- E Over Power Protection
- F Over Voltage Protection
- G Short Circuits Protection



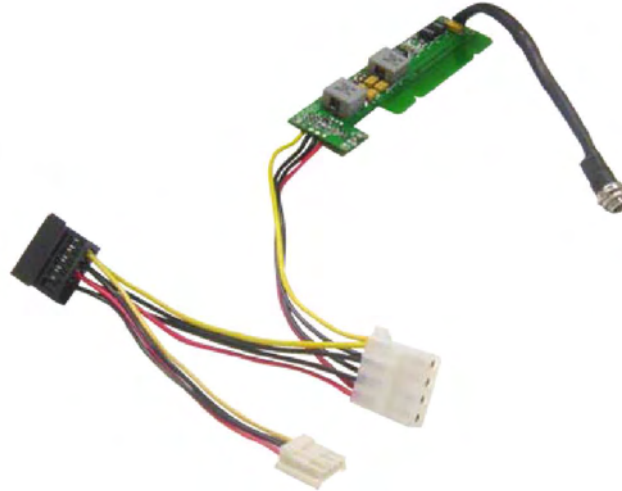
### SPECIFICATION

Model Number	IX-88
RoHS Compliance Version	Yes
Output Power [w/ Fanless]	90W
Output Power	120W
Main Connector	20 Pin
Dimension [WxHxD]	58 x 42 x 16.2 mm



# IX-89

## 90/120W PCI Slot 1U Switching Power Supply



### INTRODUCTION

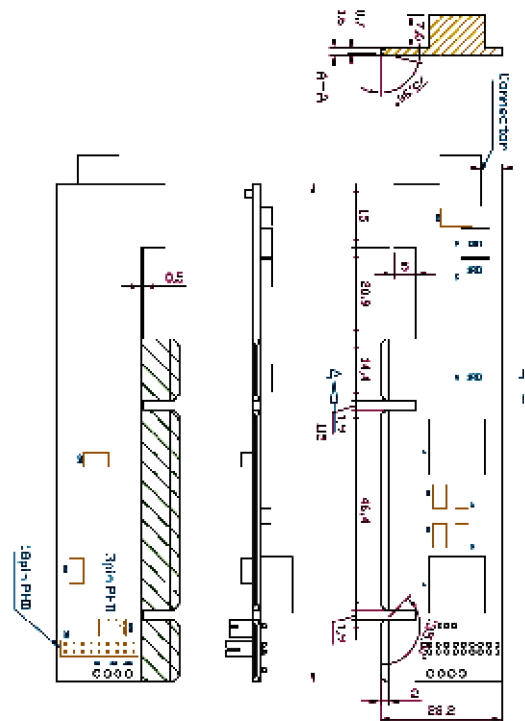
iStarUSA IX-89 mini-ITX switching power supply designed to fit in PCI slot. IX-89 enables computing at the sound of silent. Ultra compact and maximum output of 120 watts supports VIA, AMD, INTEL embedded, mobile, and core duo processors. IX-89 operates under fanless condition and also complies with 1U standard. iStarUSA specialize in providing custom OEM/ODM solution in wide variety of application includes mobile PC, medical, aviation, industrial PC, and military operation.

### FEATURES

- Ⓐ Slimline Design with Innovative Unique Mounting
- Ⓑ Fanless DC-DC Solution for 100% Mute Operating
- Ⓒ Ideal for Intel Core Duo and mini-ITX / nano-ITX / pico-ITX Mainboard
- Ⓓ Integrated with Latest 18-pin + 3-pin PHD Socket for Saving Space
- Ⓔ Over Power Protection
- Ⓕ Over Voltage Protection
- Ⓖ Short Circuits Protection

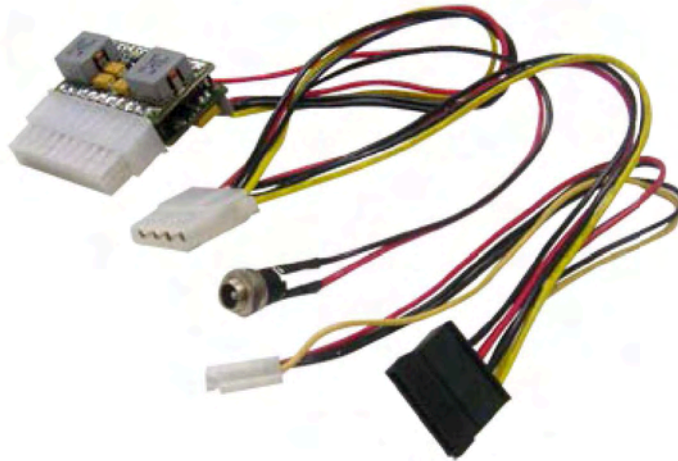
### SPECIFICATION

<b>Model Number</b>	<b>IX-89</b>
<b>RoHS Compliance Version</b>	Yes
<b>Output Power [w/ Fanless]</b>	90W
<b>Output Power</b>	120W
<b>Main Connector</b>	20 Pin
<b>Dimension [WxHxD]</b>	115 x 27.2 x 16.2 mm



# IX-90S

## 90/120W 20-Pin Switching Power Supply



### INTRODUCTION

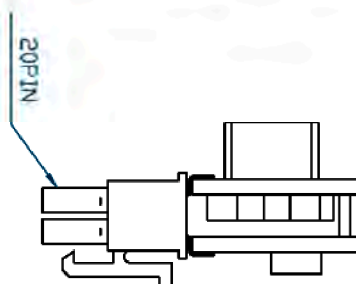
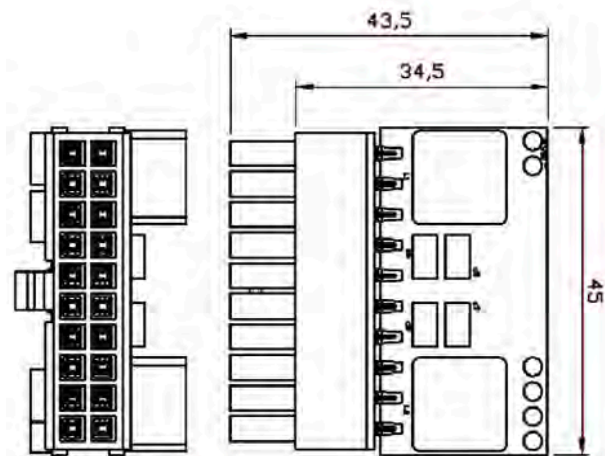
iStarUSA IX-90S mini-ITX switching power supply takes only the space of 20-pin connector to provide system power. IX-90S enable computing at the sound of silent. Ultra compact and maximum output of 120 watts supports VIA, AMD, INTEL embedded, mobile, and core duo processors. Total silent operation when combine with IX-HS heatsink. iStarUSA specialize in providing custom OEM/ODM solution in wide variety of application includes mobile PC, medical, aviation, industrial PC, and military operation.

### FEATURES

- A Compact Design for mini-ITX Cases
- B Fanless DC-DC Solution for 100% Mute Operating
- C Integrated with Latest 18-pin + 3-pin PHD Socket for Saving Space
- D Over Power Protection
- E Over Voltage Protection
- F Short Circuits Protection

### SPECIFICATION

Model Number	IX-90S
RoHS Compliance Version	Yes
Output Power [w/ Fanless]	90W
Output Power	120W
Main Connector	20 Pin
Dimension [WxHxD]	45 x 34.14 x 18.78 mm





# TC-350PD1 TC-400PD1 TC-500PD1

350/400/500W PS2 ATX Switching Power Supply



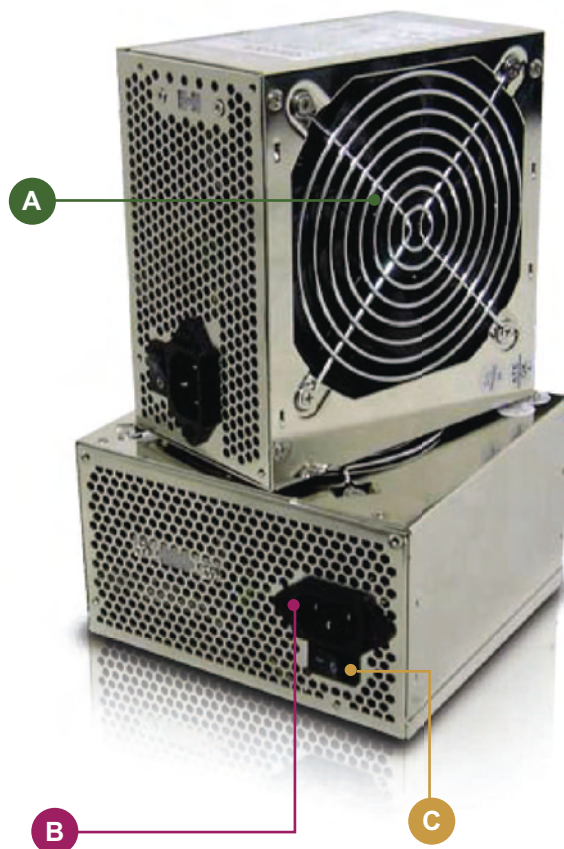
## INTRODUCTION

Introduce iStarUSA's new PD1 series high performance switching power supply with industrial strength. Features that large 120mm cooling fan design to reduce operation noise while keep the optimal airflow. Dual 12V rails increase overall system stability. The PD1 series high performance industrial switching power supply is designed for sensitive environments which great for PC Gaming, Server, Desktop, IPC applications.

## FEATURES

- High Efficiency
- Multi-Circuitry Protections
- Ezplug Cable Management
- ATX/EPS 12V Standards
- Low Noise 120mm Fan
- Auto Select/Universal Input
- Dual 12V Circuitry
- SLi and Crossfire Ready
- RoHS Compliant

- A Fan
- B AC Input Fuse
- C Power Switch



NO. of Fans: 120 mm x 1  
Air Flow CFM: 80.98  
Net Weight: 4.0 lb

# TC-500PD1 TC-350PD1 TC-400PD1

## DRAWING



20+4 Pin Connector



8 Pin Connector



Peripheral Connector



Floppy Connector



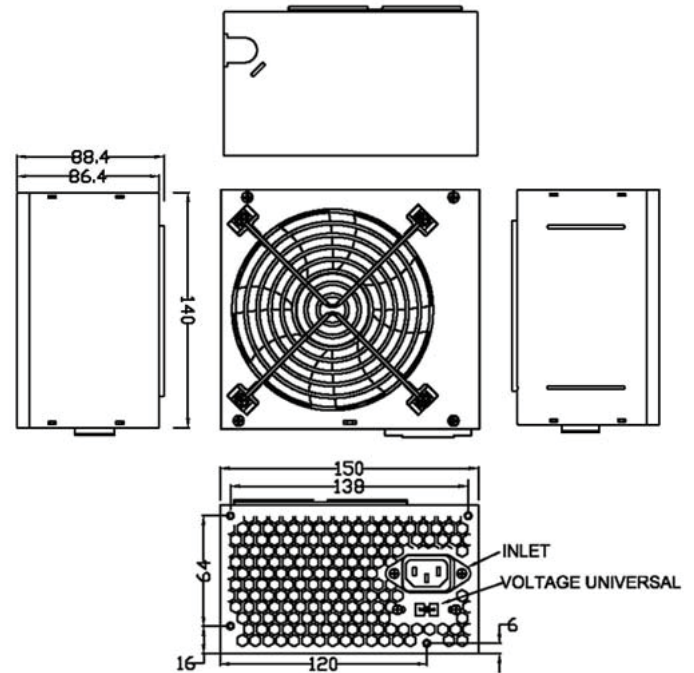
4 Pin Connector



PCI-Express



SATA Connector



## SPECIFICATIONS

Model Number	TC-350PD1	TC-400PD1	TC-500PD1
RoHS Compliance Version	Yes		
Output Power	350W	400W	500W
AC Input	100 to 240 Vac Full Range		
Main Connector	20+4 Pin		
12V Connectors	8 Pin/4 Pin		
Dimensions [WxHxD]	150 x 86 x 140 mm		

## OUTPUT TABLE

Voltage		+3.3V	+5V	+12V	+12V1	-12V	+5Vsb
Max Load	TC-350PD1	25A	25A	10A	15A	0.8A	2.5A
	TC-400PD1	28A	30A	14A	15A	0.8A	2.5A
	TC-500PD1	34A	40A	16A	17A	0.8A	2.5A
Min Load		0.5A	0.3A	1A	1A	0.1A	0.1A
Regulation		±0%	±5%	±5%	±5%	±0%	±5%

:: Operation Temperature: 0°C to 50°C  
 :: Humidity: 5 to 90°C non-condensing  
 :: Specification and wiring diagram subject to change without notice  
 :: 3 year standard Warranty  
 :: Last Update: Oct/2007



# TC-580PD3 TC-620PD3

## 580/620W PS2 ATX Switching Power Supply



### INTRODUCTION

iStarUSA PD3 series high performance switching power supply with industrial strength. The 120mm cooling fan design to reduce operation noise while keep the optional airflow and dual 12V rail increase overall system stability. It supports dual graphic card, SATA drives, ATX, and EPS12V standards. The PD3 series quiet industrial switching power supply designed for sensitive environments.

### FEATURES

- High Efficiency
- Universal Active PFC Circuitry
- Ezplug Cable Management
- Low Noise 120mm Fan
- Dual 12V Power Circuitry
- Real Power Rating
- SLi and Crossfire Ready
- RoHS Compliant

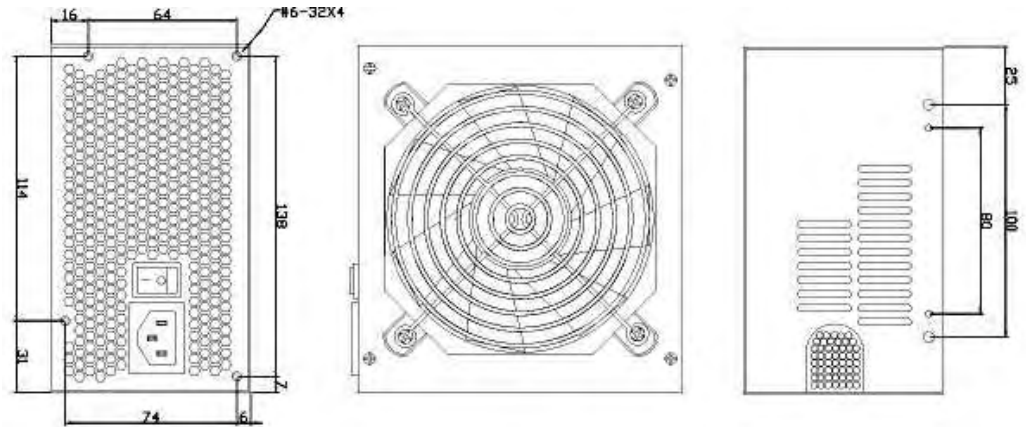
- Ⓐ Fan
- Ⓑ AC Input Fuse
- Ⓒ Power Switch
- Ⓓ Air Cell Vent



NO. of Fans: 120 mm x 1  
 Air Flow CFM: 80.98  
 Net Weight: 4.08 lb

# TC-580PD3 TC-620PD3

## DRAWING



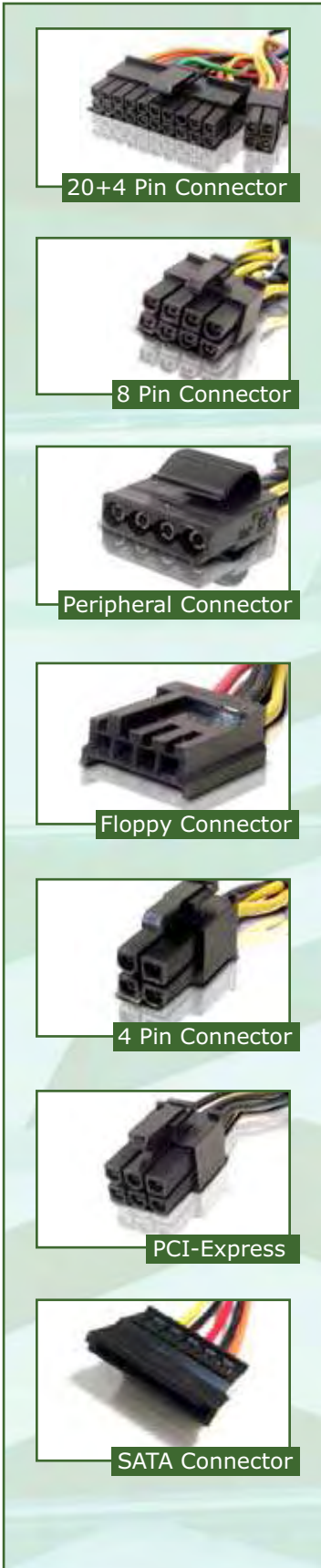
## SPECIFICATIONS

Model Number	TC-580PD3	TC-620PD3
RoHS Compliance Version	Yes	
Output Power	580W	620W
AC Input	90V to 264V Full Range 47Hz ~ 63Hz	
Main Connector	20+4 Pin	
12V Connectors	8 Pin / 4 Pin	
Dimensions [WxHxD]	150 x 86 x 140 mm	

## OUTPUT TABLE

Voltage		+3.3V	+5V	+12V	+12V1	-12V	+5Vsb
Max Load	TC-580PD3	25A	30A	18A	28A	0.8A	2.5A
	TC-620PD3	25A	30A	18A	30A	0.8A	205A
Min Load		0.5A	1.5A	1.5A	1.5A	0.1A	0.1A
Regulation		±0%	±5%	±5%	±5%	±0%	±5%
Ripple (mV)		50	50	120	120	120	50

:: Operation Temperature: 0°C to 50°C  
 :: Humidity: 5 to 90°C non-condensing  
 :: Specification and wiring diagram subject to change without notice  
 :: 3 year standard Warranty  
 :: Last Update: Oct/2007



20+4 Pin Connector

8 Pin Connector

Peripheral Connector

Floppy Connector

4 Pin Connector

PCI-Express

SATA Connector

# TC-600PD2 TC-700PD2 TC-650PD2 TC-750PD2

600/650/700/750W PS2 ATX Switching Power Supply



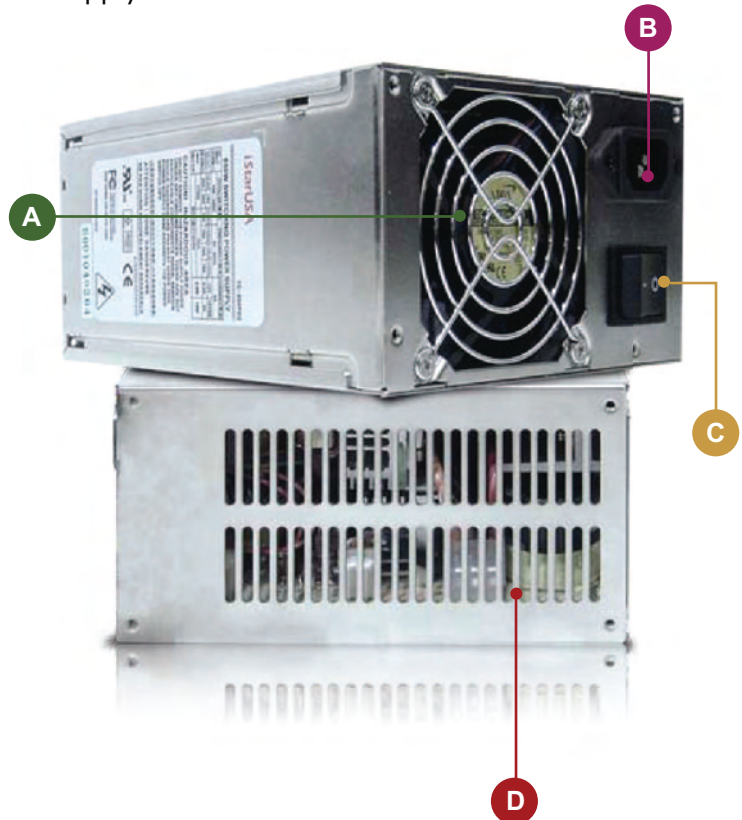
## INTRODUCTION

The PD2 high performance switching power supply series sets new standard in server and industrial power supply. It supports newest motherboard connectors of 20, 24, 8, and 4 pins. In addition PD2 series power supply also comes with dual PCI-Express connectors to enable intensive graphic application and four SATA power connectors for the latest storage interface. The dedicated quad 12V rail design added extra system stability and lower thermal dissipation. 80plus high efficiency power supply saves on electric bills and less cooling requirement. PD2 is the ideal power supply for high-end gaming workstation, and server power supply.

## FEATURES

- High Efficiency
- Universal Active PFC Circuitry
- Ezplug Cable Management
- Low Noise 80mm Fan
- Dedicated Quad 12V Rails
- Real Power Rating
- SLi and Crossfire Ready
- RoHS Compliant

- A Fan
- B AC Input Fuse
- C Power Switch
- D Air Cell Vent



NO. of Fans: 80 mm x 1  
Air Flow CFM: 39.6  
Net Weight: 5.5 lb

# TC-600PD2 TC-700PD2 TC-650PD2 TC-750PD2

## ■ DRAWING



24 Pin Connector



8 Pin Connector



Peripheral Connector



Floppy Connector



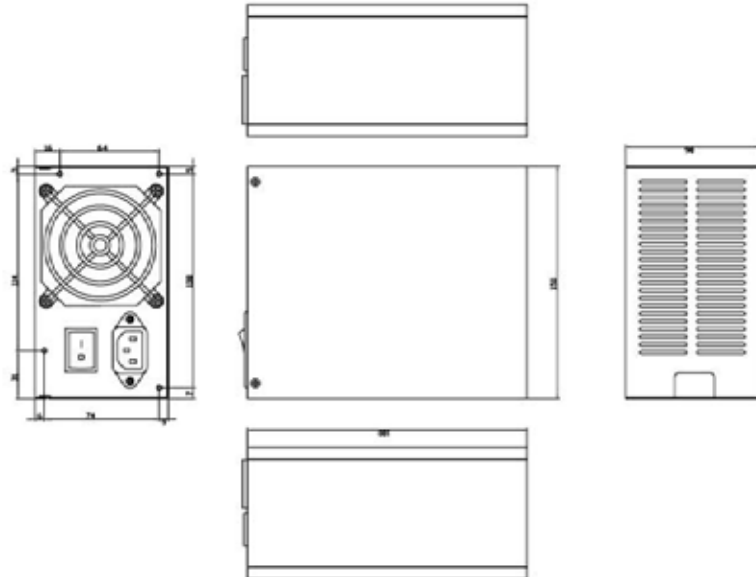
4 Pin Connector



PCI-Express



SATA Connector



## ■ SPECIFICATIONS

Model Number	TC-600PD2	TC-650PD2	TC-700PD2	TC-750PD2
RoHS Compliance Version	Yes			
Output Power	600W	650W	700W	750W
AC Input	90V to 264V Full Range 47Hz ~ 63Hz			
Main Connector	24 Pin			
12V Connectors	8 Pin / 4 Pin			
Dimensions [WxHxD]	150 x 86 x 180 mm			

## ■ OUTPUT TABLE

Voltage		+3.3V	+5V	+12V	+12V1	+12V2	+12V3	-12V	+5Vsb
Max Load	TC-600PD2	25A	30A	16A	16A	16A	16A	0.8A	3A
	TC-650PD2	25A	30A	16A	16A	16A	16A	0.8A	3A
	TC-700PD2	25A	30A	16A	16A	16A	16A	0.8A	3A
	TC-750PD2	25A	30A	16A	16A	16A	18A	0.8A	3A
Min Load		0.5A	0.5A	0.5A	0.5A	0.5A	0.5A	0.1A	0.1A
Regulation		±0%	±5%	±5%	±5%	±5%	±5%	±0%	±5%
Ripple (mV)		50	50	120	120	120	120	120	50

:: Operation Temperature: 0°C to 50°C  
 :: Humidity: 5 to 90°C non-condensing  
 :: Specification and wiring diagram subject to change without notice  
 :: 3 year standard Warranty  
 :: Last Update: Oct/2007



# TC-500R8A-Raid

500W PS/2 Raid Storage Redundant Power Supply



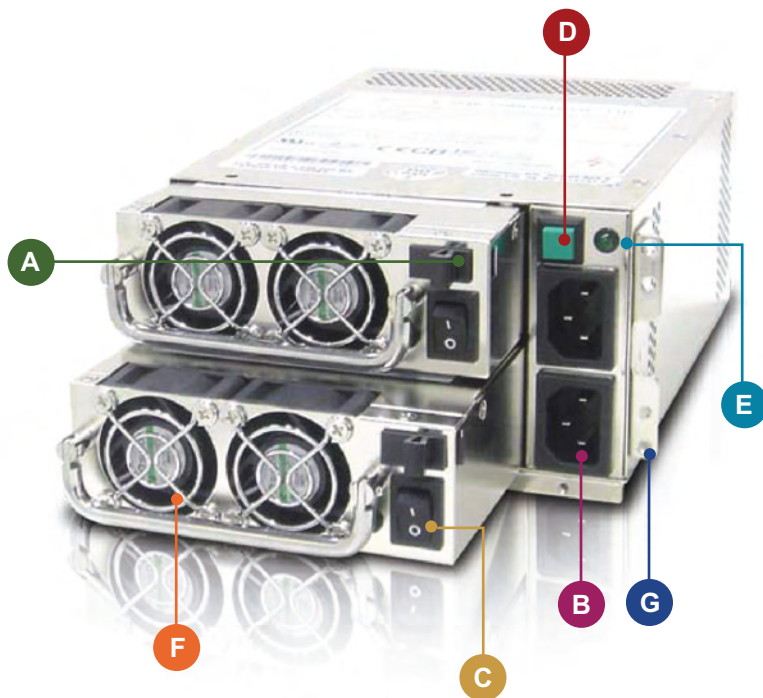
## INTRODUCTION

TC-RAID series is specially designed for RAID subsystem or JBOD cases, so it can be easily installed into a RAID subsystem without any modification. It also provides redundancy and hot-swappable features that can ensure a much longer uptime for your system.

## FEATURES

- PS/2 Size Design
- Hot-Swappable & Power Sharing Capability
- Auto Select AC Input
- Real Dual AC INPUT Design: AC-1: Primary Source, AC-2: Secondary Source

- Ⓐ Signal Release Latch
- Ⓑ AC Input Fuse
- Ⓒ Power Switch
- Ⓓ Alarm Reset Switch
- Ⓔ Module Status LED
- Ⓕ Fan
- Ⓖ Chassis Mounting Bracket



NO. of Fans: 40 mm x 4  
Net Weight: 10.1 lb

# TC-500R8A-Raid

## DRAWING



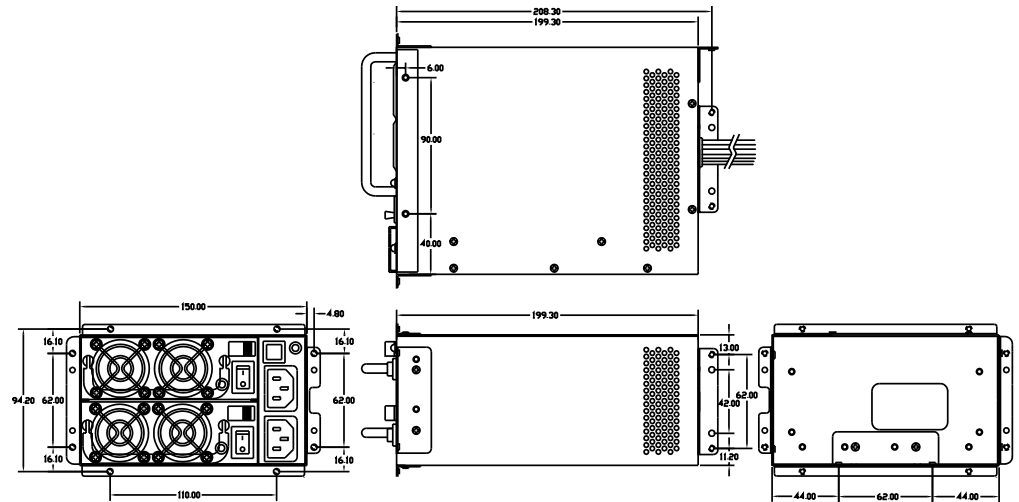
Peripheral Connector



Floppy Connector



3 External Status LED



## SPECIFICATIONS

<b>Model Number</b>	TC-500R8A-Raid
<b>RoHS Compliance Version</b>	Yes
<b>Output Power</b>	500W
<b>AC Input</b>	90V to 132V or 180V to 264V Auto Selectable 47Hz ~ 63Hz
<b>Dimensions [WxHxD]</b>	150 x 86 x 200 mm

## OUTPUT TABLE

Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
<b>Max Load</b>	24A	42A	28A	-	-
<b>Min Load</b>	-	3A	2A	-	-
<b>Regulation</b>	±0%	±5%	±5%	±0%	±5%
<b>Ripple (mV)</b>	50	50	120	120	50

:: Operation Temperature: 0°C to 50°C  
 :: Humidity: 5 to 90°C non-condensing  
 :: Specification and wiring diagram subject to change without notice  
 :: 3 year standard Warranty  
 :: Last Update: Oct/2007





## ATC-20/24

20 pin Female to 24 pin Male ATX Adaptor



## ATC-24/20

24 pin Female to 20 pin Male ATX Adaptor



## ATC-24/24-12-EXT

24 pin to 24 pin 12 inch EPS12V Extension Cable



## ATC-4/4-12-EXT

4 pin to 4 pin 12 inch Extension Cable



## ATC-4/8

4 pin Female P4 to 8 pin Male EPS12V Adaptor



## ATC-8/4

8 pin Female EPS12V to 4 pin Male P4 Adaptor



## ATC-8/8-12-EXT

8 pin to 8 pin 12 inch EPS12V Extension Cable



## ATC-ATA-C

4 pin Molex to SATA Power Adaptor



## ATC-VGAPRO



## ATC-Y-1FDD/LEAD



## ATC-Y-2FDD

1 to 2 FDD Connector Y-Cable



## ATC-Y-2LEAD

1 to 2 Power Lead Y-Cable

