



SURE STAR COMPUTER CO., LTD

NO.2-1, DAAN ROAD, SHULIN .DIST., NEW TAIPEI CITY 238 , TAIWAN.

E-mail: info@surestar.com.tw

Tel: +886 2 2682 2505

http: //www.surestar.com.tw

Fax: +886 2 2682 2515

MODEL:TC-1U40 (400W for 1U Single)

1. Specification

1.1 AC Input Voltage: 90 to 132 or 180 to 264 Auto selectable 50 to 60 Hz.

1.2 DC Output: 400W maximum

	Output-1	Output-2	Output-3	Output-4	Output-5
Voltage:	+5V DC	+12V DC	-5V DC	-12V DC	+3.3V DC
Maximum Load:	40A	20A	0.3A	0.8A	20A
Minimum Load:	3A	2A	0.1A	0.1A	0.3A
Ripple:	50mv	120mv	50mv	120mv	50mv
Ripple/Noise:	100mv	150mv	100mv	240mv	50mv
Line Regulation:	±1%	±1%	±1%	±1%	±1%
Output Regulation:	±5%	±5%	±10%	±10%	±5%
Cross Regulation:	±5%	±5%	±10%	±10%	±5%

Note:

1. Noise Test – Noise bandwidth is from DC to 20 MHz.
2. Ripple frequencies greater than 1MHz shall be attenuated by the measurement System.
3. Add 0.1uF/10uF capacitor at output connector terminals for ripple and noise measurements.
4. The combined total power from 5V & 3.3V shall not exceed 200W.
The combined total power from 5V and 12V & 3.3V shall not exceed 378W
5. +5V SB DC Output 2A.

1.3 PS-ON

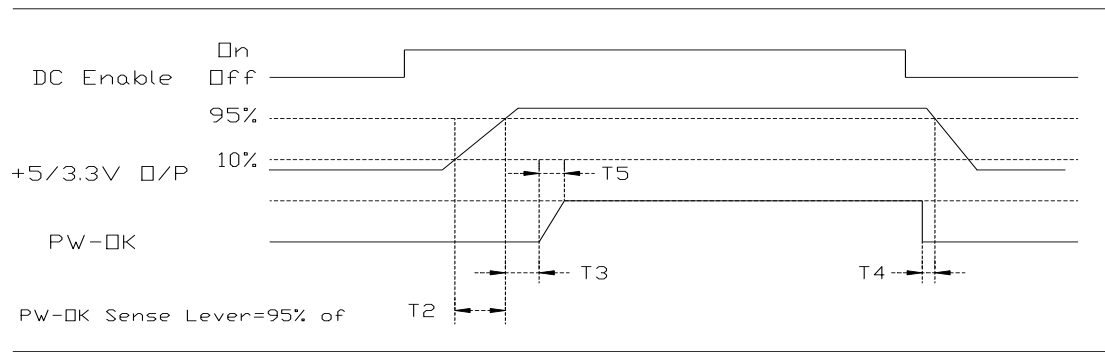
Remote On/Off Control:

When PS-ON is pulled to TTL Low, the DC output is to be enabled.

When PS-OFF is pulled to TTL high, the DC output is to be disabled.

1.4 PW-OK

PW-OK is power good signal and should be asserted high by the power supply to indicate that +5VDC and +3.3VDC output are above the under voltage thresholds of the power supply TTL. compatible signal out with 100ms to 500ms.



Timing of PS-ON, PW-OK, and Germane Voltage Rails

Although there is no requirement to meet specific timing parameters,

The following signal timings are recommended:

$$2\text{ms} \leq T2 \leq 200\text{ms}$$

$$100\text{ms} \leq T3 \leq 500\text{ms}$$

$$T4 > 1\text{ms}$$

$$T5 \leq 10\text{ms}$$

1.5 Efficiency: $\geq 70\%$ at full load.(Normal Line)

1.6 Hold-Up Time: 16ms at maximum load & normal input voltage.

2. PROTECTIONS

2.1 OVER-VOLTAGE PROTECTION

Standard on +5.0V output, set at 6.25VDC $\pm$ 0.75VDC.

2.2 SHORT CIRCUIT PROTECTION

A short circuit placed between the DC Return and the output shall cause No damage and the power supply shall shutdown.

2.3 OVER POWER PROTECTION

The power supply shall shut down when output power exceeds 130% to 160% of full load and require a power on cycle be performed by the operate

2.4 NO LOAD OPERATION

No parts shall be damaged on the power supply.

3. ENVIRONMENT TEMPERATURE

3.1 Operation Temperature: 0°C to 40°C

3.2 Cooling: By forced air

3.3 Storage Temperature:-20°C to 70°C

3.4 Humidity: 5 to 90% non-condensing.

4. RELIABILITY

4.1 MTBF OF POWER SUPPLY ELECTRONIS

100,000 hours at full load and 25°C ambient temperature

4.2 LIFE EXPECTANCY OF FAN

40,000 hours at 40°C

5. AGENCY APPROVALS

UL 1950 QQGQ2

UL 1950 QQGQ8

TUV Rheinland (EN60950-1+A12; IEC:60950)

6. EMI

FCC part 15, Subpart B, Class A

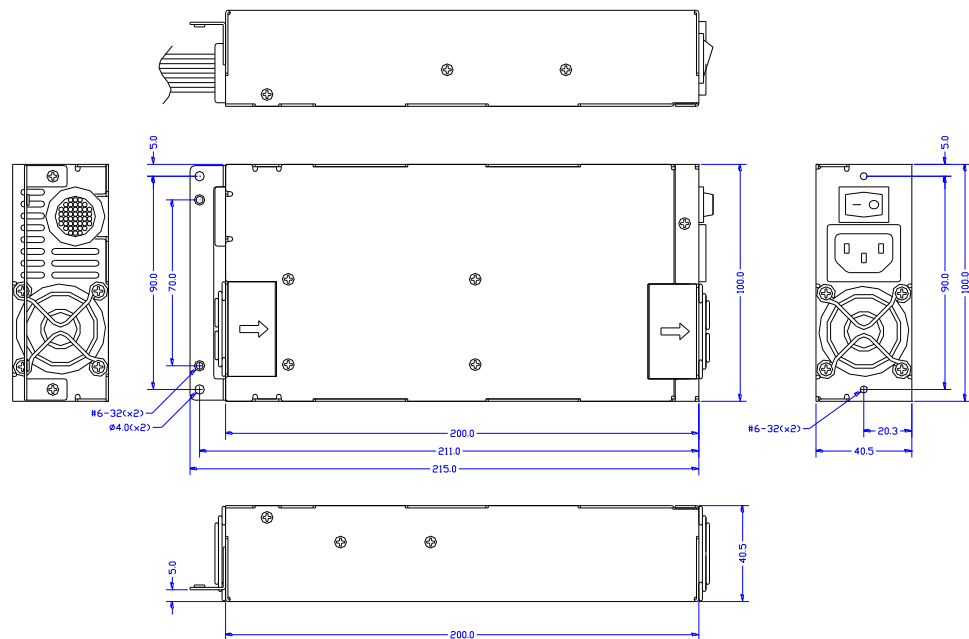
EN55022 CISPR22 Class A,

EN61000-3-3;1995

EN61000-4-2, -3, -4, -5, -6, -11

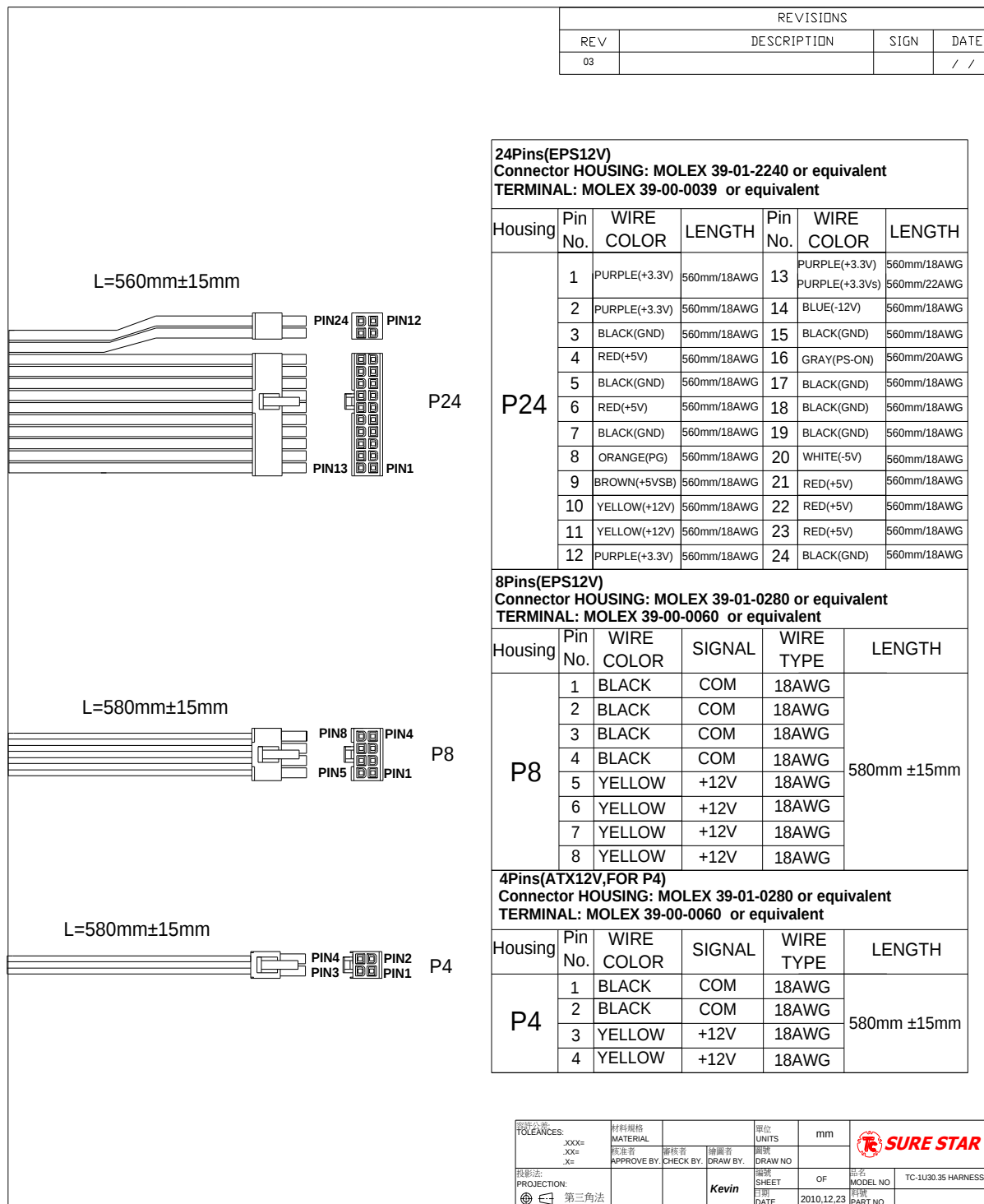
7. DIMENSION

L 200 x W 100 x H 41.5 mm



8. PINOUTS OF CONNECTORS

ATX or EPS (20+4)Pin x 1 ,
M8P +12V Power Connector x 1 ,
M4P +12V Power Connector x 1 ,
H.D.D. x 6 ,
Floppy x 2.



REVISIONS				
REV	DESCRIPTION		SIGN	DATE
03				/ /

L=480mm±15mm

L=150mm±15mm

PIN1
PIN2
PIN3
PIN4

P4H1

L=480mm±15mm

L=150mm±15mm

PIN1
PIN2
PIN3
PIN4

P4H2

L=480mm±15mm

L=150mm±15mm

PIN1
PIN2
PIN3
PIN4

P4H3

L=480mm±15mm

L=150mm±15mm

PIN1
PIN2
PIN3
PIN4

P4H4

L=480mm±15mm

L=150mm±15mm

PIN1
PIN4

P4F1

L=480mm±15mm

L=150mm±15mm

PIN1
PIN2
PIN3
PIN4

P4H5

L=480mm±15mm

L=150mm±15mm

PIN1
PIN2
PIN3
PIN4

P4H6

L=480mm±15mm

L=150mm±15mm

PIN1
PIN4

P4F2

4Pins(HD/CD-ROM/RW):P4H1~P4H6
Connector HOUSING: AMP 480424-0 or equivalent
TERMINAL:AMP 60619-4 or equivalent
4Pins(FLOPPY DISK):P4F
Connector HOUSING: AMP 171822-4 or equivalent
TERMINAL: AMP 170262-2 or equivalent

Housing	Pin No.	WIRE COLOR	SIGNAL	WIRE SIZE	LENGTH
P4H1	1	YELLOW	+12V	18AWG	480mm ±15mm
	2	BLACK	COM	18AWG	
	3	BLACK	COM	18AWG	
	4	RED	+5V	18AWG	
P4H2	1	YELLOW	+12V	18AWG	150mm ±15mm
	2	BLACK	COM	18AWG	
	3	BLACK	COM	18AWG	
	4	RED	+5V	18AWG	
P4H3	1	YELLOW	+12V	18AWG	480mm ±15mm
	2	BLACK	COM	18AWG	
	3	BLACK	COM	18AWG	
	4	RED	+5V	18AWG	
P4H4	1	YELLOW	+12V	18AWG	150mm ±15mm
	2	BLACK	COM	18AWG	
	3	BLACK	COM	18AWG	
	4	RED	+5V	18AWG	
P4F1	1	YELLOW	+12V	22AWG	150mm ±15mm
	2	BLACK	COM	22AWG	
		BLACK	COM	22AWG	
	4	RED	+5V	22AWG	
P4H5	1	YELLOW	+12V	18AWG	480mm ±15mm
	2	BLACK	COM	18AWG	
	3	BLACK	COM	18AWG	
	4	RED	+5V	18AWG	
P4H6	1	YELLOW	+12V	18AWG	150mm ±15mm
	2	BLACK	COM	18AWG	
	3	BLACK	COM	18AWG	
	4	RED	+5V	18AWG	
P4F2	1	YELLOW	+12V	22AWG	150mm ±15mm
	2	BLACK	COM	22AWG	
	3	BLACK	COM	22AWG	
	4	RED	+5V	22AWG	

公差: TOLERANCES:	材料規格 MATERIAL	單位 UNITS	mm	
XXX=	核准者 APPROVE BY	檢查者 CHECK BY	繪圖者 DRAW BY	
XXX=				
XX=				
X=				
投影法: PROJECTION:	圖號 DRAW NO	圖號 DRAW NO	OF	品名 MODEL NO
第三角法		Kevin	日期 DATE	TC-1U30.35 HARNESS
			2010.12.23	PART NO

Note: Specification and wiring diagram subject to change without notice.

2014/5/16