



I-STAR USA

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MODEL : TC-2U46 (460W)

1. Specification

1.1 AC Input Voltage: 95 to 130 or 185 to 260 Auto selectable 50 to 60 Hz.

1.2 DC Output: 460W 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	24A	0.5A	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 438W.
5. +5V SB DC Output 2A.

1.3 PS-ON

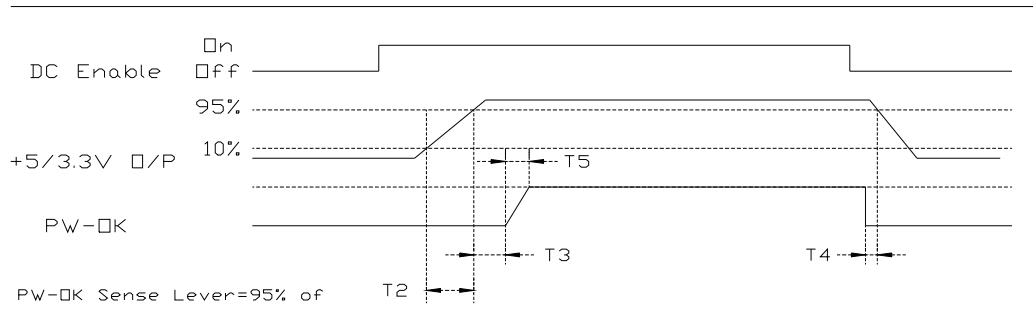
Remote On/Off Control:

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: $\geq 68\%$ 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 $6.25\text{VDC} \pm 0.75\text{VDC}$.

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 50°C

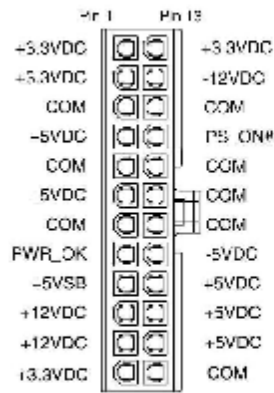
3.2 Cooling: By forced air

3.3 Storage Temperature: -20°C to 70°C

3.4 Humidity: 5 to 90% non-condensing.

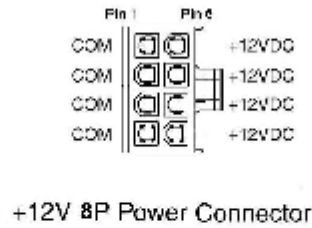
8. PINOUTS OF CONNECTORS

7 x 5.25", 1 x 3.25", 1 x ATX-24Pin (for motherboard), 1 x AUX Power Connector

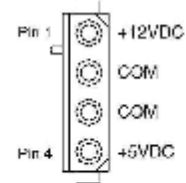


Main Power Connector

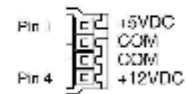
+12V = yellow	+5VSB = brown	-5V = white
+5V = red	PS_ON# = gray	+12V = blue
+3.3V = purple	PWR_OK = orange	COM = black



+12V 8P Power Connector



Peripheral Power Connector



Floppy Drive Power Connector