

**VTC0143**  
**AT (style) 250Watts**

**DC to DC Power Supply.**



**12 Volts**

[VTC142](#) : AT 200W  
[VTC0143](#) : AT 250W  
[VTC0144](#) : ATX 250W

**24 Volts**

[VTC0146](#) : AT 250W  
[VTC0145](#) : ATX 250W

**48 Volts**

[VTC147](#) : AT 300W  
[VTC0148](#) : ATX 300W  
[VTC330141](#) : AT 350W  
[VTC0150](#) : ATX 350W

**INPUT RATING**

DC Input Range: 9 VDC to 18 VDC. ( $\pm 12$  VDC)

**OUTPUT RATING**

|                  | OUTPUT-1  | OUTPUT-2  | OUTPUT-3   | OUTPUT-4   |
|------------------|-----------|-----------|------------|------------|
| VOLTAGE          | +5V DC    | +12V DC   | -5V DC     | -12V DC    |
| MAXIMUM LOAD     | 25A       | 10A       | 0.5A       | 2A         |
| MINIMUM LOAD     | 5A        | 2A        | 0A         | 0.4A       |
| RIPPLE           | 50mV      | 120mV     | 150mV      | 200mV      |
| RIPPLE / NOISE   | 150mA     | 200mV     | 200mV      | 250mV      |
| LINE REGULATION  | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$  | $\pm 1\%$  |
| LOAD REGULATION  | $\pm 5\%$ | $\pm 5\%$ | $\pm 10\%$ | $\pm 10\%$ |
| CROSS REGULATION | $\pm 5\%$ | $\pm 5\%$ | $\pm 10\%$ | $\pm 10\%$ |

**OVERALL PERFORMANCE**

Total output power : 250W continuous output  
 Efficiency : 70% typical at full load  
 Hold up time : 16ms at maximum load and normal input voltage(24 VDC)  
 Power good : TTL compatible signal out with 100ms to 500ms

**FEATURE**

Short circuit protection (SCP): All output equipped with short circuit protection  
 Over Power protection : Peak power proected to between 110% to 125% of continuous rated power  
 Over voltage protection (OVP) : +6V  $\pm$  0.5V by +5V

**ENVIRONMENTAL CONDITIONS**

Operating temperature : 0 to 50 degree celsius ambient  
 Cooling : By forced air  
 Storage temperature : -20 to + 85 degree celsius ambient  
 Storage humidity : 10~90%

**RELIABILITY**

Mean time between failure : 50K hours at 25 degree celsius ambient

**DIMENSIONS**

PS/2 Type Dimension : 150(L) x 140(W) x 86(H) /mm

**MAIN COMPONENTS**

IR brand power MOSFETS MOSFETS IRDP150  
Scottky diode D83-004 x 2 , 30A/40V  
Fast diode C16P20F 16A/200V for +12V , D5LC20U 5A/200V  
7905 for -5V@ 1A  
Main capacitor 4700uf/50V x 2

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**VoxTechnologies Corp. - Industrial Computer Leader**  
**Tel: 1-972-234-4343 Fax: 1-972-234-4295 Toll-Free: 1-888-568-6224**

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**Telephone:** 1-972-234-4343  
General Info: [info@voxttechnologies.com](mailto:info@voxttechnologies.com)  
Sales Info: [sales@voxttechnologies.com](mailto:sales@voxttechnologies.com)