



Xtreme/PSU-UPS

Connect Tech's Xtreme/PSU-UPS is a high efficiency, high powered PC/104 form factor power supply featuring a wide input voltage range that accepts +6V to +36V DC, and provides 154W of total output power with +5V, +12V, -12V, +3.3V and +5 standby output voltages.

Xtreme/PSU-UPS features SMART battery charging for uninterrupted power supply and battery backup functionality, along with extended temperature capabilities.

Xtreme/PSU-UPS can be used in combination with Connect Tech's stackable CPU and expansion boards for a total design solution, and is ideal for use in a broad range of rugged military and industrial applications.



Product Name: Xtreme/PSU-UPS
Part Number: SCG001, SCG002

Specifications

Dimensions	PC/104 Standard 3.55" (90mm) x 3.775" (96mm)
Bus Expansion Options	
• SCG001:	PCI-104 (PCI)
• SCG002:	Embedded (No Bus Connectors)
Input	
• Power Requirements:	+6V to +36V DC
• Protection:	Reverse polarity protection and transient voltage suppression and series fuse
Output	
• Total Power	154W
• +3.3V	10A maximum continuous for full -40 to +85 range
• +5V	10A maximum continuous for full -40 to +85 range
• +12V	5A maximum continuous for full -40 to +85 range
• -12V	0.5A maximum continuous for full -40 to +85 range
• +5V Standby	1A maximum continuous for full -40 to +85 range
• Regulation	Less than 1%
• Protection	Overload protection and transient voltage suppression
• Efficiency	Up to 93%
Battery	Fully compatible with all SMART external batteries, supporting charging up to 16V, 4A
Monitor/Control	On-board USB, RS-232 and SMBus interfaces for battery monitoring and power on/off control
Operating Temperature	-40°C to +85°C (-40°F to 185°F)
Connectors	Output: 3.5mm pitch standard terminal block header and mating plug Input: 5mm pitch standard terminal block header and mating plug
Warranty and Support	Lifetime warranty and free technical support

RoHS

Specifications subject to change without notice.
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FEATURES

- ✓ SMART battery charging for uninterrupted power supply
- ✓ 154W total output power, +5V, +12V, -12V, +3.3V, and +5V standby
- ✓ PCI-104 expansion
- ✓ Fully meets PC/104 component height requirements
- ✓ Uses latest generation highest efficiency power controllers, inductors, and MOSFETs
- ✓ Oversized MOSFETs for improved thermal performance (heat sinking not required)

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