

TOTAL POWER INT'L

AUTO-RANGING AC INPUT AC-DC MULTIPLE OUTPUT

200 WATTS 19" COMPATIBLE DOUBLE EUROCARD

SWITCHING POWER SUPPLIES HSU200 SERIES



FEATURES:

- **AUTO-RANGING AC INPUT**
- **19" COMPATIBLE EUROCARD FORMAT**
- **MEET THE SAFETY STANDARDS**
- **EMI MEET CISPR PUB.22 & FCC CLASS A**
- **CE MARKING COMPLIANCE**
- **12HP X 6U X160MM DOUBLE EUROCARD VMEbus STANDARD**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Auto-ranging 115Vac(90-132Vac) and 230Vac(180-264Vac).
Transient threshold typ. 150Vac.

Input Connector: DIN 41612 at rear.

Input Frequency: 47-63Hz

Inrush Current: Typ. 65.0A @ 230Vac.

Input Current: Typ. 3.3A/115Vac & 1.6A/230Vac.

Dielectric Withstand: Meet IEC950.

EMI: Meet CISPR PUB.22 or FCC Class A.

Hold-up Time: Typ. 26mS.

Power OK: Installed

Remote Inhibit: Installed.

Over Temp. Protection (OTP): Installed (Thermostate).

Power-On LED: Installed.

Earth leakage: Typ. 0.3 mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: Typ. 200 Watts.

Output Connector: DIN 41612 at rear.

Line Regulation: Typ. 0.2%.

Load Regulation: Main VO1 typ. $\pm 1.0\%$.
Aux. VO2 typ. $\pm 1-2.0\%$ (MA).
Aux. VO3 typ. $\pm 2-3.0\%$ (PR).
Aux. VO4 typ. $\pm 2-3.0\%$ (PR).

Noise & Ripple: Typ. 1% peak to peak.

OVP: Available at main VO1 & Aux.VO2.(latch).

Adjustability: Available at VO1 & VO2.

Remote Sense: Installed at main VO1.

Overload Protection (OLP): Fully protected against output overload and short circuit. Typ. 130% full load.
Consult the factory for OLP setting.

Output LED Indicators: Installed for all outputs.

GENERAL SPECIFICATION

Efficiency: Typ. 76-77.0%.

Switching Frequency: Typ. 100K Hz.

Circuit Topology: Forward circuit.

Transient Response: Output voltage returns in less than 1.5mS following a 25% load change.

Safety Standard: IEC950/UL1950 Class I.

Power Density: 1.30 Watt / Cubic Inch.

Operating Temperature: 0 to +50°C at full load.
Derate linearly to +70°C at half load.

Storage Temperature: -20 to +85°C.

Temperature Coefficient: Typ. 0.04%/°C.

Cooling: Free air convection.

Construction format: 12HPx6U compatible double Eurocard VMEbus standard.

Note: All measurements are at nominal input, full load, and +25°C unless otherwise specified.

OUTPUT VOLTAGE/CURRENT RATINGS CHART

TRIPLE OUTPUT

| MODEL NO. | MAIN VO1 ★@# | | AUX. VO2 @▲ | | AUX. VO3 ● | |
|------------------------------|--------------|-------|-------------|-------|------------|-------|
| | Typ. | Volt. | Typ. | Volt. | Typ. | Volt. |
| HSU200-T050II (HSU200-32) | 20.0A | 5.0V | 7.0A | 12.0V | 1.0A | 12.0V |
| HSU200-T050MI (HSU200-33) | 20.0A | 5.0V | 3.5A | 24.0V | 1.0A | 12.0V |
| HSU200-T050DI | 20.0A | 5.0V | 18.0A | 3.3V | 1.0A | 12.0V |
| HSU200-T033EI | 25.0A | 3.3V | 17.0A | 5.0V | 1.0A | 12.0V |

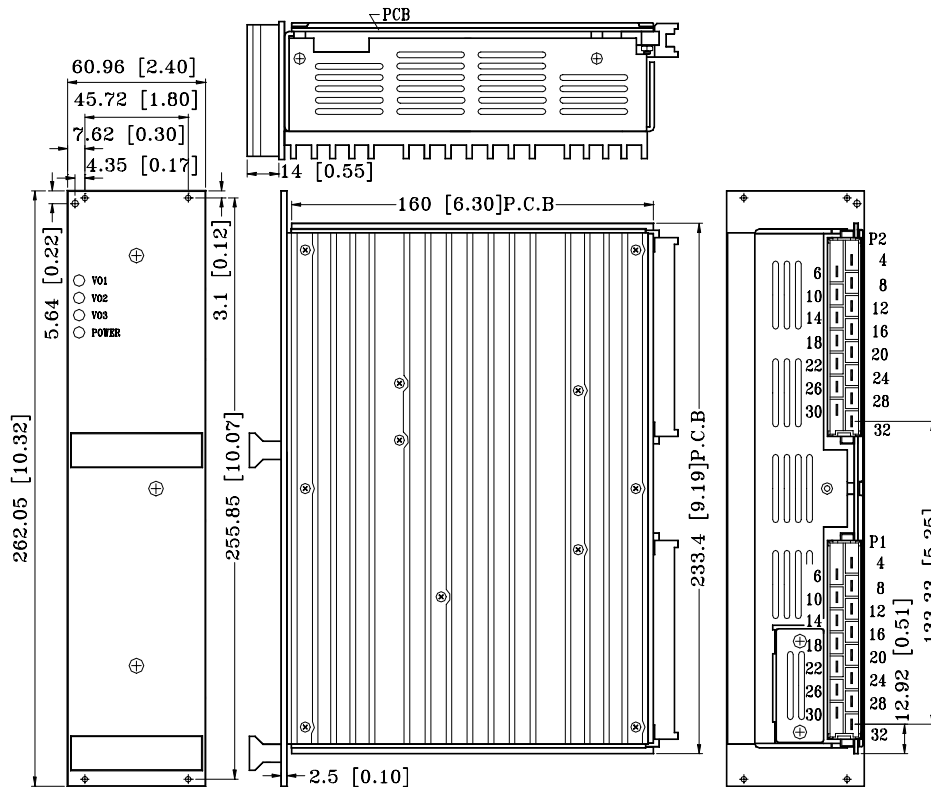
QUAD OUTPUT

| MODEL NO. | MAIN VO1 ★@# | | AUX. VO2 @▲ | | AUX. VO3 ● | | AUX. VO4 ● | |
|-------------------------------|--------------|-------|-------------|--------|------------|--------|------------|--------|
| | Typ. | Volt. | Typ. | Volt. | Typ. | Volt. | Typ. | Volt. |
| HSU200-Q050III (HSU200-40) | 20.0A | +5.0V | 6.0A | +12.0V | 1.0A | -12.0V | 1.0A | +12.0V |
| HSU200-Q050MII (HSU200-42) | 20.0A | +5.0V | 3.0A | +24.0V | 1.0A | -12.0V | 1.0A | +12.0V |
| HSU200-Q050DII | 20.0A | +5.0V | 15.0A | +3.3V | 1.0A | -12.0V | 1.0A | +12.0V |
| HSU200-Q033EII | 25.0A | +3.3V | 14.0A | +5.0V | 1.0A | -12.0V | 1.0A | +12.0V |

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "▲" Magnetic Amplifier. "●" Post Regulator.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 2.43Kg (5.35lb.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

| ASSIGNMENT | AC INPUT | | | TRIPLE/QUAD OUTPUT | | | | | ASSORTED SIGNAL | | | | | |
|------------|----------|-------|-------|--------------------|----------|-------|-------|-------------------|-------------------------------|-----------|----------|----------|-----------|---------|
| | AC-L | AC-N | AC-G | +VO1 | +VO2 | -VO3 | +VO4 | DC COM | NC | LOG. INH. | VO1 S(+) | VO1 S(-) | SYS Reset | AC Fail |
| HSU200-T | P1-28 | P1-30 | P1-32 | P2-4,6,8,10 | P2-28,30 | P2-16 | - | P2-18,20,22,24,26 | P1-10,12,14,16,18,20,22,24,26 | P1-8 | P2-14 | P2-32 | P1-6 | P1-4 |
| HSU200-Q | P1-28 | P1-30 | P1-32 | P2-4,6,8,10 | P2-28,30 | P2-16 | P2-12 | P2-18,20,22,24,26 | P1-10,12,24,16,18,20,22,24,26 | P1-8 | P2-14 | P2-32 | P1-6 | P1-4 |

Mating connector: DIN41612-H15 Female **TOTAL POWER, INT. Tel: 877-646-0900 Fax: 978-453-7395** □

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