



## **UNIVERSAL AC INPUT AC-DC 19" COMPATIBLE EUROCARD MULTI-OUTPUT 45 WATTS SWITCHING MODE POWER SUPPLIES HIU45 SERIES**



### **FEATURES:**

- ACCOMMODATE UNIVERSAL AC SOURCES
- 19" COMPATIBLE EUROCARD FORMAT
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE
- 3U X 6HP X 160MM FOR VMEbus STANDARD

### **SPECIFICATION**

#### **INPUT SPECIFICATION**

**Input Voltage:** Range Typ. 90-264Vac.  
 Rating 100 to 240Vac.  
**Input Connector:** DIN 41612 at rear.  
**Input Frequency:** 47-63Hz  
**Inrush Current:** Typ. 25-30A @ 230Vac.  
**Input Current:** 0.34A/115Vac & 0.17A/230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR PUB. 22 & FCC Class B.  
**Power Fail Signal:** Installed.  
**Remote Inhibit:** Available at single output only.  
**Hold-up Time:** Typ. 10mS @115Vac/40-50mS @230Vac.  
**Earth leakage:** Typ. 0.3-0.5A @230Vac.

#### **OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 45-50 Watts.  
**Output Connector:** DIN 41612 at rear.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Main VO1 typ.  $\pm 1.0\%$ .  
 Aux. VO2 typ.  $\pm 2-3.0\%$  (P.R.).  
 Aux. VO3 typ.  $\pm 2-3.0\%$  (P.R.).  
**Noise & Ripple:** Typ. 1% peak to peak.  
**OVP:** Built-in at main VO1 (latch).  
**Adjustability:** Available at main output VO1.  
**Remote Sense:** Installed at main VO1.  
**Overload Protection (OLP):**  
 Fully protected against output overload and short circuit.  
 Consult the factory for OLP setting.

#### **GENERAL SPECIFICATION**

|                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Efficiency:</b> Typ. 60-70%.<br><b>Switching Frequency:</b> 45K Hz.<br><b>Circuit Topology:</b> Fixed frequency flyback circuit.<br><b>Transient Response:</b> Output voltage returns in<br>less than 3mS following<br>a 25% load change. | <b>Operating Temperature:</b> 0 to +50°C.<br><b>Storage Temperature:</b> -20 to +85°C.<br><b>Temperature Coefficient:</b> Typ. 0.04% /°C.<br><b>Cooling:</b> Free air convection cooling.<br><b>Construction:</b> 6HP(TE) x 3U 19" compatible Eurocard<br>VMEbus standard. |
| <b>Safety Standard:</b> IEC 60950-1/UL 60950-1 Class I.                                                                                                                                                                                      | <b>Power Density:</b> 1.4Watts / Cubic Inch.                                                                                                                                                                                                                               |

Note: Due to requests in market and advances in technology, specifications subject to change without notification.



In application

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

### SINGLE OUTPUT

| MODEL NO      | MAIN VO1 ★@#<br>Typ. Volt. |
|---------------|----------------------------|
| HIU45-S025160 | 16.0A 2.5V                 |
| HIU45-S030140 | 14.0A 3.0V                 |
| HIU45-S050090 | 9.0A 5.0V                  |
| HIU45-S120040 | 4.0A 12.0V                 |
| HIU45-S150032 | 3.2A 15.0V                 |
| HIU45-S240020 | 2.0A 24.0V                 |
| HIU45-S480010 | 1.0A 48.0V                 |

### DUAL OUTPUT

| MODEL NO    | MAIN VO1 ★@#<br>Typ. Volt. | AUX. VO2 ◇•<br>Typ. Volt. |
|-------------|----------------------------|---------------------------|
| HIU45-D030E | 8.0A 3.0V                  | 2.0A 5.0V                 |
| HIU45-D030I | 7.0A 3.0V                  | 2.0A 12.0V                |
| HIU45-D050D | 6.0A 5.0V                  | 2.0A 3.0V                 |
| HIU45-D050I | 4.0A 5.0V                  | 2.0A 12.0V                |
| HIU45-D050K | 4.0A 5.0V                  | 2.0A 15.0V                |
| HIU45-D050M | 4.0A 5.0V                  | 1.0A 24.0V                |

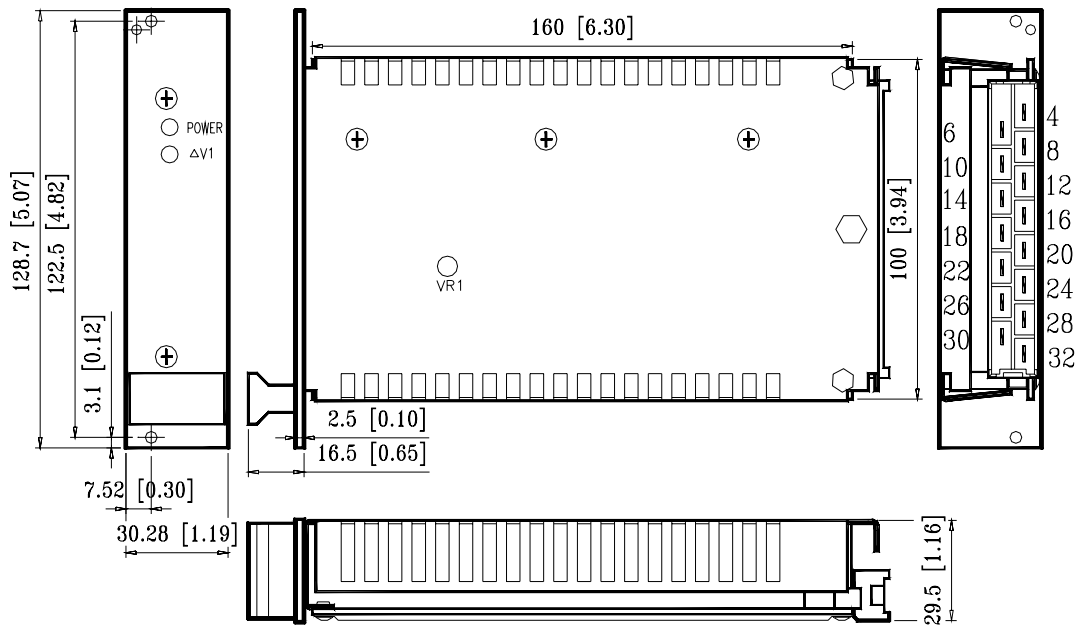
### TRIPLE OUTPUT

| MODEL NO     | MAIN VO1 ★@<br>Typ. Volt. | AUX. VO2 ◇•<br>Typ. Volt. | AUX. VO3 ◇ •<br>Typ. Volt. |
|--------------|---------------------------|---------------------------|----------------------------|
| HIU45-T030EE | 5.0A 3.0V                 | 3.0A 5.0V                 | 1.0A 5.0V                  |
| HIU45-T030II | 5.0A 3.0V                 | 2.0A 12.0V                | 0.5A 12.0V                 |
| HIU45-T030KK | 5.0A 3.0V                 | 1.5A 15.0V                | 0.5A 15.0V                 |
| HIU45-T050DE | 5.0A 5.0V                 | 2.0A 3.0V                 | 1.0A 5.0V                  |
| HIU45-T050DI | 5.0A 5.0V                 | 2.0A 3.0V                 | 1.0A 12.0V                 |
| HIU45-T050II | 4.0A 5.0V                 | 1.5A 12.0V                | 1.0A 12.0V                 |
| HIU45-T050KK | 4.0A 5.0V                 | 1.2A 15.0V                | 0.8A 15.0V                 |

Symbol: "★" OVP built-in. "◇" Floating(or isolated) output. "# " Remote sensing.  
 "@ " Adjustable. "•" Installed with Post Regulator (PR).

## MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 593.0g (20.92 Oz.)



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

| ASSIGNMENT | AC INPUT |      |      | SINGLE /DUAL/TRIPLE OUTPUT |       |      |      |      |      | ASSORTED SIGNAL |    |      |               |
|------------|----------|------|------|----------------------------|-------|------|------|------|------|-----------------|----|------|---------------|
|            | AC-L     | AC-N | AC-G | +VO1                       | -VO1  | +VO2 | -VO2 | +VO3 | -VO3 | S+              | S- | P.F. | LOGIC INHIBIT |
| HIU45-1X   | 28       | 30   | 32   | 4,6                        | 12,14 | -    | -    | -    | -    | 8               | 10 | 22   | 20            |
| HIU45-2X   | 28       | 30   | 32   | 4                          | 6     | 8    | 10   | -    | -    | -               | -  | 22   | 20            |
| HIU45-3X   | 28       | 30   | 32   | 4,6                        | 8,10  | 12   | 14   | 16   | 18   | -               | -  | 22   | 20            |

Mating connector: DIN41612-H15 Female.