



## FEATURES

- Meets International Safety & Conducted Noise Specifications
  - UL1950 Recognized
  - CSA 22.2 No. 234 Certified
  - IEC950/EN60950 (TUV Certified)
  - Independently Tested to FCC Level A VDE level A, VCCI Class 1
- Wide Range Input Voltage
- MTBF > 300,000 Hours, Field Failure Rate < 0.01%
- Remote ON/OFF; Power Fail
- Power Factor Corrected 0.99 typ
- Overtemperature, Overload and Overvoltage Alarm
- Fan-Cooled
- Parallel Operation

## AUXILIARY FEATURES

Operating Indication LED

## SPECIFICATIONS

### INPUT

|           |  |
|-----------|--|
| Voltage   | 85 - 264 VAC (continuous)              |
| Frequency | 47 - 63 Hz                             |
| Current   |  |
| Full Load | 120V - 6.2A (RMS)<br>240V - 3.2A (RMS) |
| Inrush    | 120V - 15A<br>240V - 30A               |

### OUTPUT

|                               |  |
|-------------------------------|--|
| Regulation                    |  |
| Total                         | ±5.0%  |
| Drift                         | ±0.3% (for 8 hours after 10 min. warm-up)                          |
| Temp. Coefficient             | ±0.01%/°C max.   |
| Ripple & Noise (peak-to-peak) | 1.50V max.<br>(measured at 25°C with a bandwidth of 50 MHz)        |
| Hold-up Time                  | 10 mS min.<br>(measured at nominal input voltage, full load, 25°C) |
| Converter Topology            | Forward Converter  |
| Operating Frequency           | 400 KHz  |

### PROTECTION

|             |   |    |    |
|-------------|---|----|----|
| Overvoltage | All models are protected against overvoltage. Control circuit is preset so output voltage does not exceed the following values: |    |    |
|             | Output V  | 24 | 48 |
|             | OVP   | 32 | 60 |

|          |  |
|----------|--|
| Overload | All models are protected against overload. The control circuit has a foldback characteristic with the knee set at 110% of full-rated load. Recovery is automatic after removal of the fault. |
|----------|--|

|                    |   |
|--------------------|---|
| EPO                | Emergency power off   |
| Remote ON/OFF      | Output voltage ON - closed contacts +RC, -RC<br>Output voltage OFF - open contacts +RC, -RC     |
| Thermal Protection | Automatic shutdown under overtemperature condition.   |
| AC Power Fail      | Provided.   |
| Power Alarm        | Provided.   |
| Parallel Operation | Units with like output voltage rating can be operated in parallel regardless of current rating. |

## INSULATION

All models meet the requirements of UL1950, CSA 22.2 No. 234, and EN60950 for Input-to-Chassis, Input-to-Output, Output-to-Chassis and Leakage Current specifications. See Engineering Section.

## ENVIRONMENT

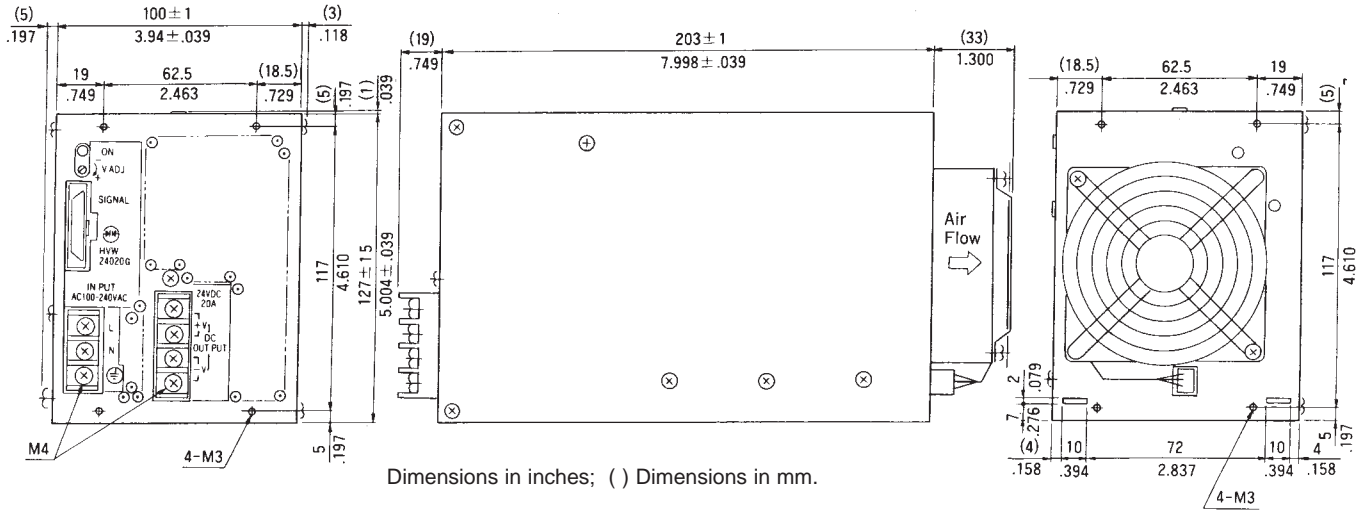
|                    |  |
|--------------------|--|
| Operating Temp.    | -10 to +50°C at full load.                             |
| Operating Humidity | 20 - 90% relative humidity (non-condensing)            |
| Storage Temp.      | -25 to +75°C   |
| Storage Humidity   | 10 - 95% relative humidity (non-condensing)            |
| Shock              | < 10G  |
| Vibration          | 4.5G, 10 - 55 Hz, 0.75 mm amplitude<br>(non-operating) |

## MODEL SPECIFICATIONS

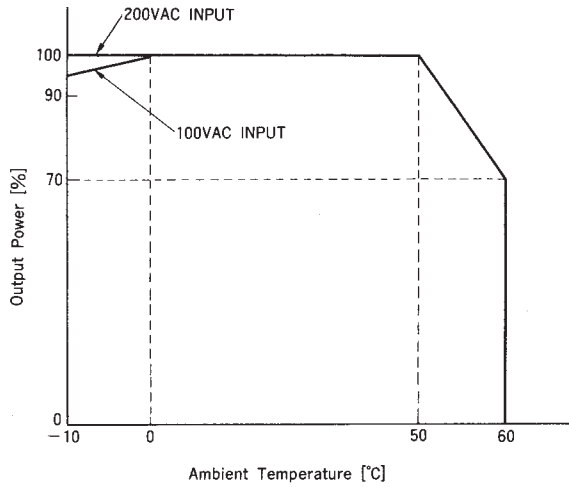
| Model Number | Output Voltage (±10%) | Output Current | Efficiency |
|--------------|-----------------------|----------------|------------|
| HVW24020G    | 24.0V                 | 20A            | 83%        |
| HVW48010G    | 48.0V                 | 10A            | 83%        |

**MECHANICAL SPECIFICATIONS**

Size (W x D x H) 8.0 x 5.0 x 3.94 inches (203 x 127 x 100 mm)  
 Weight 6.0 lb (2.6 kg)



**DERATING CHART**



**CONNECTOR DESIGNATIONS**

|      |                |
|------|----------------|
| J1-1 | Chassis Ground |
| J1-2 | AC 1           |
| J1-3 | AC 2           |
| J2-1 | -V             |
| J2-2 | -V             |
| J2-3 | +V             |
| J2-4 | +V             |

Connections made to J1 with M4 hardware; to J2 with 15-pin D-shell connector Hirose, Inc. P/N EC1B-15P-2.5DP5A or equivalent (supplied); DC output connections made to copper bars drilled with 0.35" clearance holes.

**SIGNAL CONNECTOR PIN**

|        |  |
|--------|--|
| Pin ①  | RC (remote ON/OFF control) positive side                     |
| Pin ②  | RC (remote ON/OFF control) and PF (power fail) negative side |
| Pin ③  | PF (power fail) positive side                                |
| Pin ④  | No connection  |
| Pin ⑤  | EPO (emergency power off) positive side                      |
| Pin ⑥  | EPO (emergency power off) negative side                      |
| Pin ⑦  | ALM (alarm signal) positive side                             |
| Pin ⑧  | ALM (alarm signal) negative side                             |
| Pin ⑨⑩ | No connection  |