



Linear Power Supplies - Regulated

Overview

International Power IH series regulated open frame power supplies are designed to operate over a wide range of AC power sources.

Features

- VDE transformer construction
- 100/120/220/230-240 VAC input
- Overvoltage protection on 5V outputs
- +/- 0.05% regulation
- Chassis notched for AC input
- 2-year warranty



IHB5-3-OVP



| Regulated Linear Power Supplies | | | | | | |
|---------------------------------|--|-----------------------------|----------------------------|--------------------------|---------------------------|---------------|
| Power Supply | IHB5-3-OVP | IHCC512 | IHBB15-1.5 | IHDD15-5 | IHB24-1.2 | |
| Price | \$77.00 | \$173.00 | \$120.00 | \$236.00 | \$80.00 | |
| Drawing | PDF | PDF | PDF | PDF | PDF | |
| VAC Input | 100/120/220/240 VAC, +10 / - 13% Tolerance for 230VAC, Operation is +15 / -10% Frequency range: 47-63 Hz | | | | | |
| VDC Output | Output 1 | 5VDC @ 3A | 5VDC @ 6A | ± 12VDC @ 1.7 A | ± 12VDC or ± 15VDC @ 5A | 24VDC @ 1.2 A |
| | Output 2 | - | 12 to 15 VDC @ 2.5 A | ± 15VDC @ 1.5 A | - | - |
| Overvoltage Protection | Provided, factory set @ 6.2 VDC, ± 0.4 VDC | Provided on the 5VDC output | Not provided | | | |
| Short Circuit Protection | Automatic foldback | | | | | |
| Overload Protection | Automatic current limit | | | | | |
| Line Regulation | ± 0.05% for a 10% line change | | | | | |
| Load Regulation | +/- 0.05% for a 50% load change (Derate output current 10% for 50Hz operation.) | | | | | |
| Output Ripple | 5.0 mV PK-PK max | | | | | |
| Transient Response | < 50 µsec per 50% load change | | | | | |
| Operating Temperature | 0 to 50°C [32 to 122°F] full rated; derated linearly to 40% at 70°C [158°F] | | | | | |
| Storage Temperature | -40 to 85°C [-40 to 185°F] | | | | | |
| Temperature Coefficient | Typical: 0.01% / Degree C; Maximum: 0.03% / Degree C | | | | | |
| Stability | +/- 0.3% for 24 hours after 1 hour warm-up | | | | | |
| Efficiency (typical) | 45% | | | | 60% | |
| Vibration | MIL-STD-810G, Method 514.6, Category 1, Procedure 1 Random vibration 10Hz - 2KHz, 6.15 grams (3-axis) | | | | | |
| Shock | MIL-STD-810G, Method 514.6, Procedure 3 Operating: 20GPK | | | | | |
| Remote Sensing | Provided | Provided - both outputs | Provided | | | |
| EMI / RFI | Inherit low conducted and radiated noise levels EMI: FCC CFR Title 47 part 15 subpart B RFI: EN55022/CISPR22-Level B compatibility | | | | | |
| Humidity | 95% relative humidity maximum | | | | | |
| Cooling Method | High heat temperature environment, recommended forced air at 100W, 50CFM required at 250W or higher | | | | | |
| Mounting | No restrictions | | | | | |
| Weight (lb [kg]) | 2 [0.90] | 7 [3.17] | 4 [1.81] | 10 [4.53] | 2 [0.90] | |
| Housing Material | Aluminum | | | | | |
| Connections | Input accepts 0.110 x 0.32 fast-ons or solder connection | | | | | |
| Agency Approvals | UR (File # E133338), CE | | | | | |

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.
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| Regulated Linear Power Supplies | | | | |
|---------------------------------|--|---------------------|-----------------------------|---|
| Power Supply | IHC24-2.4 | IHD24-4.8 | IHTAA-16W | IHBAA-40W |
| Price | \$103.00 | \$168.00 | \$117.00 | \$139.00 |
| Drawing | PDF | PDF | PDF | PDF |
| VAC Input | 100/120/220/240 VAC, +10 / - 13% Tolerance for 230VAC, Operation is +15 / -10% Frequency range: 47-63 Hz | | | |
| VDC Output | Output 1 | 24VDC @ 2.4 A | 24VDC @ 4.8 A | 5VDC @ 2A |
| | Output 2 | - | - | +12VDC or +15V @ 0.4 A |
| | Output 3 | - | - | -12 VDC or -15VDC @ 0.4 A or -5V @ 0.4 A |
| Overvoltage Protection | Not provided | | Provided on the 5VDC output | |
| Short Circuit Protection | Automatic foldback | | | |
| Overload Protection | Automatic current limit | | | |
| Line Regulation | ± 0.05% for a 10% line change | | | |
| Load Regulation | +/- 0.05% for a 50% load change (Derate output current 10% for 50Hz operation.) | | | |
| Output Ripple | 5.0 mV PK-PK max | | | |
| Transient Response | < 50 µsec per 50% load change | | | |
| Operating Temperature | 0 to 50°C [32 to 122°F] full rated; derated linearly to 40% at 70°C [158°F] | | | |
| Storage Temperature | -40 to 85°C [-40 to 185°F] | | | |
| Temperature Coefficient | Typical: 0.01% / Degree C; Maximum: 0.03% / Degree C | | | |
| Stability | +/- 0.3% for 24 hours after 1 hour warm-up | | | |
| Efficiency (typical) | 45% / 55% | 60% | 45% | |
| Vibration | MIL-STD-810G, Method 514.6, Category 1, Procedure 1 Random vibration 10Hz - 2KHz, 6.15 grams (3-axis) | | | |
| Shock | MIL-STD-810G, Method 514.6, Procedure 3 Operating: 20GPK | | | |
| Remote Sensing | Provided | | | |
| EMI / RFI | Inherit low conducted and radiated noise levels EMI: FCC CFR Title 47 part 15 subpart B RFI: EN55022/CISPR22-Level B compatibility | | | |
| Humidity | 95% relative humidity maximum | | | |
| Cooling Method | High heat temperature environment, recommended forced air at 100W, 50CFM required at 250W or higher | | | |
| Mounting | No restrictions | | | |
| Weight (lb [kg]) | 4 [1.81] | 7.5 [3.40] | 2 [0.90] | 5 [2.26] |
| Housing Material | Aluminum | | | |
| Connections | Input accepts 0.110 x 0.32 fast-ons or solder connection | | | |
| Agency Approvals | UL (File # E133338), CE | | | |

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



Linear Power Supplies - Regulated

Input Jumpering and Fusing Requirements

| IHB5-3-OVP | | | | |
|--------------------------------|----------|----------|--------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 4&1 | 1&5 | 4&1 |
| Max Current/Fuse Rating | 0.5 A | | 0.25 A | |

| IHBB15-1.5 | | | | |
|--------------------------------|----------|----------|--------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 1&4 | 1&5 | 1&4 |
| Max Current/Fuse Rating | 1A | | 0.5 A | |

| IHB24-1.2 | | | | |
|--------------------------------|----------|----------|---------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 4&1 | 1&5 | 1&4 |
| Max Current/Fuse Rating | 0.75 A | | 0.375 A | |

| IHD24-4.8 | | | | |
|--------------------------------|----------|----------|--------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 1&4 | 1&5 | 1&4 |
| Max Current/Fuse Rating | 2A | | 1A | |

| IHBAA-40W | | | | |
|--------------------------------|----------|----------|--------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 1&4 | 1&5 | 1&4 |
| Max Current/Fuse Rating | 1.5 A | | 0.75 A | |

Negative output @ -5VDC @ 0.4 A, Jumper E1 and E2 & Reset R26. For ± 15 VDC, cut Jumpers VW1 and VW2

| IHCC512 | | | | |
|--------------------------------|----------|----------|--------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 1&4 | 1&5 | 1&4 |
| Max Current/Fuse Rating | 3A | | 1.5 A | |

| IHDD15-5 | | | | |
|--------------------------------|----------|----------|--------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 1&4 | 1&5 | 1&4 |
| Max Current/Fuse Rating | 3A | | 1.5 A | |

For +/-12VDC @ 5A, move wires at XFMR Pins B-B to A-A & adjust R26 & R29

| IHC24-2.4 | | | | |
|--------------------------------|----------|----------|--------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 4&1 | 1&5 | 4&1 |
| Max Current/Fuse Rating | 1.5 A | | 0.75 A | |

| IHTAA-16W | | | | |
|--------------------------------|----------|----------|---------|------------|
| For use at | 100VAC | 120VAC | 220VAC | 230/240VAC |
| Jumper | 1&3, 2&4 | 1&3, 2&4 | 2&3 | 2&3 |
| Apply AC | 1&5 | 1&4 | 1&5 | 1&4 |
| Max Current/Fuse Rating | 0.75 A | | 0.375 A | |

Negative output @ -5VDC @ 0.4 A, Jumper E1 and E2 & Reset R25