



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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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	5VDC @ 3A
	Output 2	–	–	+12VDC or +15V @ 0.4 A	12VDC @ 1A or 15VDC @ 0.8
	Output 3	–	–	-12 VDC or -15VDC @ 0.4 A or -5V @ 0.4 A	12VDC @ 1A, or 15VDC @ 0.8 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			

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Input Jumpering and Fusing Requirements

IHB5-3-0VP				
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