

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



		Reg	ulated Linear Powe	r Supplies			
Power Supply		IHB5-3-OVP	IHCC512	IHBB15-1.5	IHDD15-5	IHB24-1.2	
Price		\$-5#aj:	\$05#ak:	\$-05#al:	\$05#an:	\$5#ao:	
Drawing		PDF	PDF	PDF	PDF	PDF	
VAC Input			Tolerance for 2	/220/240 VAC, +10 / - 13% 230VAC, Operation is +15 / - Juency range: 47-63 Hz	10%		
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 Prote	ection	Provided, factory set @ 6.2 VDC, ± 0.4 VDC	Provided on the 5VDC output		Not provided		
Short Circuit Prot	ection			Automatic foldback			
Overload Protecti	on		Aı	utomatic current limit			
Line Regulation			± 0.05	% for a 10% line change			
+/- 0.05% for a 50% load change (Derate output current 10% for 50Hz operation.)				ation.)			
Output Ripple		5.0 mV PK-PK max					
Transient Respon	se	< 50 µsec per 50% load change					
Operating Temper	rature	0 to 50°C [32 to 122°F] full rated; derated linearly to 40% at 70°C [158°F]					
Storage Temperat	ure	-40 to 85°C [-40 to 185°F]					
Temperature Coef	ficient	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				ethod 514.6, Category 1, Pro n 10Hz - 2KHz, 6.15 grams			
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	Cooling Method High heat temperature environment, recommended forced air at 100W, 50CFM required at 250W or higher				igher		
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	0 x 0.32 fast-ons or solder co	onnection		
Agency Approvals	3		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. Continued on next page.



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Power Supply		<u>IHC24-2.4</u>	<u>IHD24-4.8</u>	IHTAA-16W	IHBAA-40W			
Price		\$05#ap:	\$05#aq:	\$05#as:	\$;05#at:			
Drawing		<u>PDF</u>	<u>PDF</u>	<u>PDF</u>	<u>PDF</u>			
VAC Input			100/120/220/240 VAC, +10 / - 13% Tolerance for 230VAC, Operation is +15 / -10% Frequency range: 47-63 Hz					
Output 1		24VDC @ 2.4 A	24VDC @ 4.8 A	5VDC @ 2A	5VDC @ 3A			
VDC Output	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	ne 5VDC output			
Short Circuit Protection			Au	tomatic foldback				
Overload Protection			Auto	omatic 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 tempe	erature environment, recomme	nded forced air at 100W, 50CFM re	equired 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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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	1.	A	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