

HPA65A/C series

v1.2

65W Medical / ITE Power Supply

GENERAL DESCRIPTION:

The series provides a voltage range from 8V to 48V, delivering up to 65 watts of power, suitable for various applications and devices.



Dimensions (L × W × H):
115 x 50 x 31mm

HPA65C
C6 Type AC Inlet

SAFETY STANDARDS:



FEATURES:

- * Input Voltage Range 70-264VAC (70VAC input is suitable for countries with low input voltage)
- * Operating Temperature: -40~70°C (with derating from 50°C)
- * Suitable for BF Application
- * Protection: OVP, OLP, OTP, SCP
- * 2MOPP
- * Extremely Low Leakage Current <0.1mA
- * Operating Altitude: 5000M
- * Built-In EMI Filter
- * High Surge Immunity
- * IP22
- * Pass LPS
- * Designed to Meet ISN & 60335
- * 3-Year Warranty

OPTIONAL FEATURES:

- * OVC III
- * IP54
- * Withstand 297VAC Surge Input for 2 Minutes

APPLICATIONS:

- * Medical Devices
- * Telecommunication Devices
- * Household Devices
- * Consumer Electronics
- * Office Electronics
- * Industrial Equipment

GENERAL SPECIFICATION:

- * Waterproof and Dustproof Degree: IP22, IP54
- * Protection Classes: Class I
- * Safety: IEC 62368-1 Edition 2.0, IEC 62368-1 Edition 3.0, EN 62368-1, UL62368-1, CAN/CSA-C22.2 NO.62368-1-14, IEC 60601-1 Edition 3.2, EN60601-1, ANSI/AAMI ES60601-1: 2005 (R2012), CSA C22.2 NO. 60601-1:14

ELECTRICAL CHARACTERISTICS:

Characteristic	Condition	Min.	Typ.	Max.	Unit
Nominal Input Voltage	100 / 240VAC, Single Phase	100		240	VAC
Input Voltage Range	Derate Linearly from 100% load at 90VAC to 70% load at 70VAC	70		264	VAC
Input Frequency Range	Sine Wave	47		63	Hz
Output Power	See Rating Chart			65	W
Low Line Input Current	Full Load, Vin=115VAC			1.5	A
High Line Input Current	Full Load, Vin=230VAC			0.75	A
Low Line Input Inrush Current	Full Load, 25°C, Cool Start, Vin=115VAC			50	A
High Line Input Inrush Current	Full Load, 25°C, Cool Start, Vin=230VAC			100	A
Earth Leakage Current	0.1mA @264VAC Normal Condition, 0.3mA @264VAC Single Fault Condition			0.1	mA
Average Efficiency	CoC v5 (Tier2), See Rating Chart		89		%
Line Regulation	Full Load, Vin=100~120VAC			0.5	%
Load Regulation	Vin=100~240VAC		3	5	%
Hold-Up Time	Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.		12		ms
Start-Up Time	Full Load, Vin=100~240VAC			3	s
Rise Time	At 115VAC & 230VAC			50	ms
Isolation	Input to Output			4000	VAC
	Input to PE			1500	VAC
	Output to PE [Standard version only (RTN≠GND)]			1500	VAC

PROTECTION:

Characteristic	Condition	Min.	Typ.	Max.	Unit
Short Circuit	Hiccup Mode, (Non-Latching, Auto-Recovery)				
Over Temperature	Hiccup Mode, (Non-Latching, Auto-Recovery)				
Overvoltage	Latch Mode	105		150	%
Overload / Overcurrent	Hiccup Mode, (Non-Latching, Auto-Recovery)	110		154	%

ENVIRONMENTAL:

Characteristic	Condition	Min.	Typ.	Max.	Unit
Operating Temperature	Derate Linearly From 100% Load at 40°C to 50% Load at 70°C	-40		70	°C
Storage Temperature	Surrounding Air Temperature	-40		85	°C
Temperature Coefficient	All Condition			±0.04	%/°C
Operating Humidity	10-95% RH (Non-Condensing)	10		95%	RH
Storage Humidity		0		95%	RH
Operating Altitude	Up to 5,000 meters	5000			m
Vibration	Non-Operating, 5-500 Hz, 2.09 Grms, 20 minute for Each Three Axis			2.09	G

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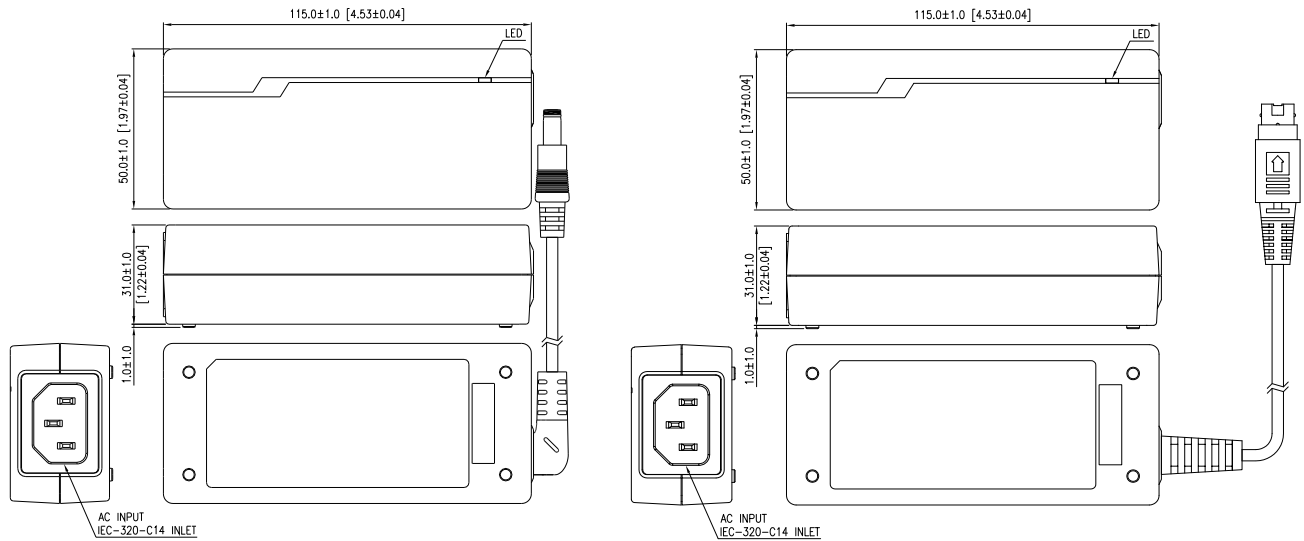
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RATING CHART:

MODEL NO.	Rated Output Voltage	Rated Output Current	Maximum Output Power	Ripple & Noise	Total Regulation	Load Efficiency 10%	AVG. Efficiency	Max. No Load Consumption	Hold-Up Time (typ.)	Limited Power Source
	(VDC)	(A)	(W)	(mVp-p)	(%)	(%)	(%)	(W)	(ms)	(LPS)
HPA65A-080	8	6.75	54	80	±5	79.0	89.0	0.15	12	×
HPA65A-090	9	6.00	54	100	±5	79.0	89.0	0.15	12	×
HPA65A-120	12	5.42	65	100	±3	79.0	89.0	0.15	12	✓
HPA65A-150	15	4.33	65	100	±3	79.0	89.0	0.15	12	✓
HPA65A-160	16	4.06	65	120	±3	79.0	89.0	0.15	12	✓
HPA65A-180	18	3.61	65	120	±3	79.0	89.0	0.15	12	✓
HPA65A-190	19	3.42	65	120	±3	79.0	89.0	0.15	12	✓
HPA65A-200	20	3.25	65	130	±3	79.0	89.0	0.15	12	✓
HPA65A-240	24	2.70	65	150	±2.5	79.0	89.0	0.15	12	✓
HPA65A-280	28	2.32	65	180	±2.5	79.0	89.0	0.15	12	✓
HPA65A-300	30	2.16	65	200	±2.5	79.0	89.0	0.15	12	✓
HPA65A-480	48	1.36	65	200	±2.5	79.0	89.0	0.15	12	✓

MECHANICAL DIMENSIONS: (UNIT: mm)

HPA65A



HPA65C

