

70 Watt

AC/DC - Desktop Power Supply



- o Universal Input 90-264 VAC
- o Continuous Short Circuit Protection
- o Over Voltage Protection
- o Meets EN55022 Class B and CISPR/FCC Class B
- o Meets CoC Tier 2 & DoE Level VI
- o High Efficiency up to 89%



MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE ¹⁾	VOLTAGE ACCURACY ²⁾	LINE REGULATION ³⁾	LOAD REGULATION ⁴⁾	% EFF MIN. ⁵⁾
HBACS70-12-C14	12 VDC	5800 mA	1%	±2%	±1%	±4%	89
HBACS70-15-C14	15 VDC	4650 mA				±3%	
HBACS70-18-C14	18 VDC	3900 mA				±2%	
HBACS70-19-C14	19 VDC	3700 mA					
HBACS70-24-C14	24 VDC	3000 mA					
HBACS70-28-C14	28 VDC	2500 mA					
HBACS70-36-C14	36 VDC	2000 mA					
HBACS70-48-C14	48 VDC	1500 mA					

NOTE:

1. Add a 0.1 µF ceramic capacitor and a 10 µF E.L. capacitor to output for ripple & noise measuring @ 20 MHz BW.
2. Voltage setpoint at 60% load.
3. Line regulation measured from 100 Vac to 240 Vac, full load.
4. Load regulation measured from 60% to 100% load and from 60% to 20% load (60% ± 40%load).
5. Average efficiency measured at 25%, 50%, 75%, 100% load and input voltage is 115/230 VAC.

SPECIFICATIONS

All Specifications Typical At Nominal Line, 75% Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Frequency	47 to 63 Hz
Input Current	1.5 A max.
Inrush Current	Cold Start, @25°C, @240 VAC 50 A max.
Leakage Current	3.5 mA max.

OUTPUT SPECIFICATIONS

Holdup Time	@ 115 VAC @ 230 VAC	8 ms 60 ms
Short Circuit Protection	Continuous (Auto Recovery)	
Over Voltage Protection	TVS Component to Clamp	
Over Load Protection	Please refer to Short Circuit Protection*	
Temperature Coefficient	±0.05%/°C	

* Continuous use in Over Load condition is not recommended as it may cause damage of power supply.

SPECIFICATIONS

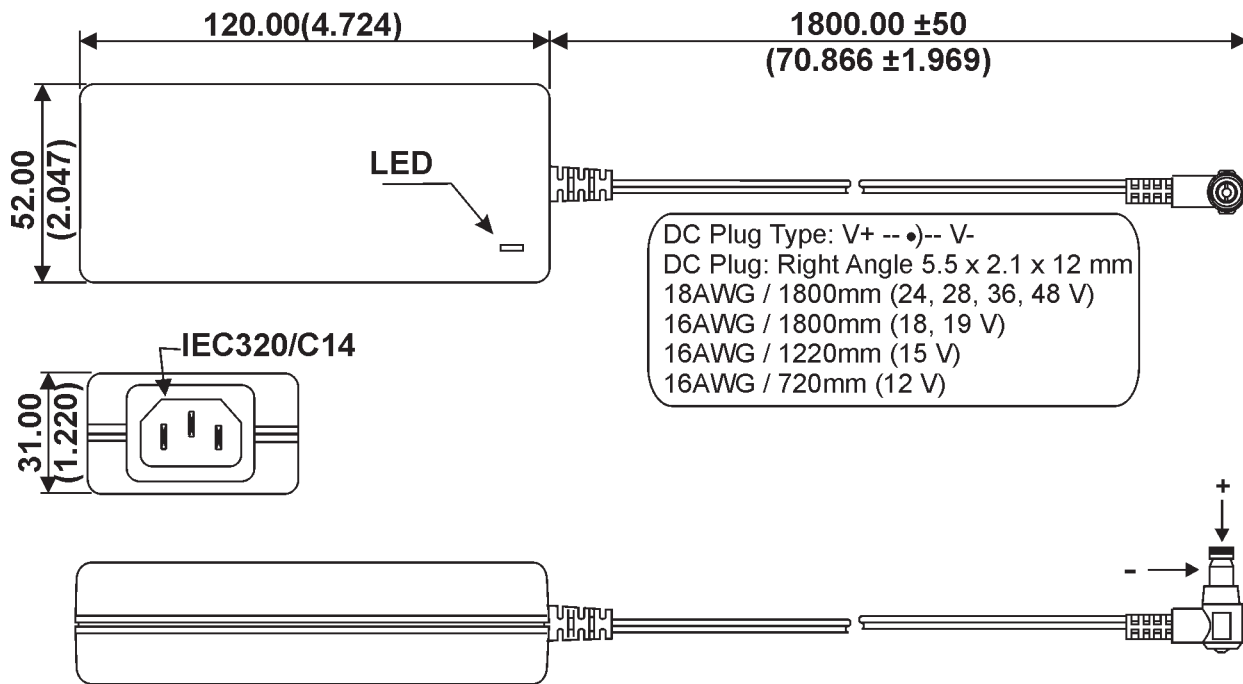
All Specifications Typical At Nominal Line, 75% Load, and 25°C Unless Otherwise Noted

GENERAL SPECIFICATIONS		
Power Consumption @ No Load		<0.150 W
Isolation	Input to Output	4242 VDC
Switching Frequency		65 kHz
Operating Temperature		-20°C to +70°C (see derating curve)
Storage Temperature		-20°C to +85°C
Cooling		Natural Convection
Humidity		93% RH max. Non condensing
MTBF (MIL-HDBK-217F), GB, @25°C/115 VAC		200 khrs min.
Altitude		5000 m
Safety Standards		Class I, IEC60950-1, EN60950-1, UL60950-1
EMI		EN55022 Class B, FCC Part 15 Class B, EN61000-6-3, EN61000-3-2, EN61000-3-3 EN55024, EN61204-3, EN61000-6-1
Dimensions		120.00 x 52.00 x 31.00 mm (4.724 x 2.047 x 1.220 Inches)
Weight		300 g
DC-Output Plug		Right Angle 5.5 x 2.1 x 12 mm Center+
DC-Cord	24, 28, 36, 48 VDC 18, 19 VDC 15 VDC 12 VDC	18 AWG / 1800 mm 16 AWG / 1800 mm 16 AWG / 1220 mm 16 AWG / 720 mm
AC-Inlet		IEC320/C14

SPECIFICATIONS

All Specifications Typical At Nominal Line, 75% Load, and 25°C Unless Otherwise Noted

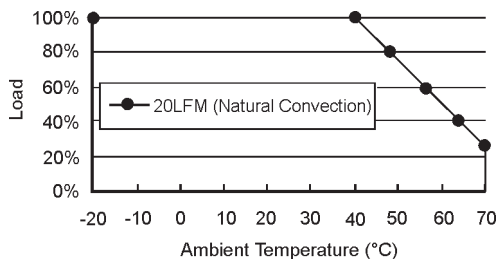
MECHANICAL SPECIFICATIONS



All Dimensions in mm (Inches)
 Tolerance: x.xx±0.5mm (x.xxx=±0.02)

DIAGRAMS

Derating Diagram



NOTICE:
 The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies!
 Specifications can be changed without notice. The latest and most complete information can be found on our website.