



Power-One has a wide range of standard and specialized heat sinks available for our converters. Shown below are standard product heat sinks. The heat sink kits include the heat sink, thermal pad, and mounting hardware. On horizontal heat sinks, the fins run in the direction of input pins to output pins. On vertical heat sinks, the fins run at a right angle to this direction. Please consult the factory for additional details or application information.

CONVERTER SERIES	Size (L x W x H) Inches	Orientation	Thermal Impedance °C/W					Part Number
			Free Air	100 LFM	200 LFM	300 LFM	400 LFM	
QBS	2.28 x 1.45 x 0.24	horizontal	8.60	6.52	4.64	3.78	3.23	HSK-QBS500-24H
QBS	2.28 x 1.45 x 0.45	horizontal	6.30	4.75	3.26	2.72	2.23	HSK-QBS500-45H
QBS	2.28 x 1.45 x 0.95	horizontal	3.00	2.25	1.62	1.27	1.13	HSK-QBS500-95H
QBS	2.28 x 1.45 x 0.24	vertical	8.60	6.52	4.64	3.78	3.23	HSK-QBS500-24V
QBS	2.28 x 1.45 x 0.45	vertical	6.30	4.75	3.26	2.72	2.23	HSK-QBS500-45V
QBS	2.28 x 1.45 x 0.60	vertical	4.40	3.36	2.32	1.92	1.64	HSK-QBS500-60V
QBS	2.28 x 1.45 x 0.95	vertical	3.00	2.25	1.62	1.27	1.13	HSK-QBS500-95V
QES	2.28 x 1.45 x 0.24	horizontal	13.20	10.00	6.90	5.70	3.00	HSK-QES500-24H
QES	2.28 x 1.45 x 0.45	horizontal	11.50	8.70	6.07	5.00	4.36	HSK-QES500-45H
QES	2.28 x 1.45 x 0.95	horizontal	6.30	4.77	3.38	2.75	2.39	HSK-QES500-95H
QES	2.28 x 1.45 x 0.24	vertical	8.60	6.52	4.64	3.78	3.23	HSK-QES500-24V
QES	2.28 x 1.45 x 0.45	vertical	6.30	4.75	3.26	2.72	2.23	HSK-QES500-45V
QES	2.28 x 1.45 x 0.60	vertical	4.40	3.36	2.32	1.92	1.64	HSK-QES500-60V
QES	2.28 x 1.45 x 0.95	vertical	3.00	2.25	1.62	1.27	1.13	HSK-QES500-95V
HAS/HBC/HBCS/HBD/HBS/HDS/HES/HHD/HHS/HWD	2.40 x 2.28 x 0.24	horizontal	8.60	6.52	4.64	3.78	3.23	HSK-HBX500-24H
HAS/HBC/HBCS/HBD/HBS/HDS/HES/HHD/HHS/HWD	2.40 x 2.28 x 0.45	horizontal	6.30	4.75	3.26	2.72	2.23	HSK-HBX500-45H
HAS/HBC/HBCS/HBD/HBS/HDS/HES/HHD/HHS/HWD	2.40 x 2.28 x 0.60	horizontal	4.30	3.26	2.32	1.92	1.64	HSK-HBX500-60H
HAS/HBC/HBCS/HBD/HBS/HDS/HES/HHD/HHS/HWD	2.40 x 2.28 x 0.95	horizontal	4.80	3.63	2.59	2.12	1.80	HSK-HBX500-95H
HAS/HBC/HBCS/HBD/HBS/HDS/HES/HHD/HHS/HWD	2.40 x 2.28 x 0.24	vertical	8.60	6.52	4.64	3.78	3.23	HSK-HBX500-24V
HAS/HBC/HBCS/HBD/HBS/HDS/HES/HHD/HHS/HWD	2.40 x 2.28 x 0.45	vertical	6.30	4.75	3.26	2.72	2.23	HSK-HBX500-45V
HAS/HBC/HBCS/HBD/HBS/HDS/HES/HHD/HHS/HWD	2.40 x 2.28 x 0.60	vertical	4.40	3.36	2.32	1.92	1.64	HSK-HBX500-60V
TES/TQD	3.45 x 2.40 x 0.95	horizontal	2.50	1.90	1.32	1.10	0.32	HSK-TQD500-95H
TES/TQD	3.45 x 2.40 x 0.24	vertical	8.60	6.52	4.64	3.78	3.23	HSK-TQD500-24V
TES/TQD	3.45 x 2.40 x 0.45	vertical	6.30	4.75	3.36	2.73	2.39	HSK-TQD500-45V

NUCLEAR AND MEDICAL APPLICATIONS - Power-One products are not designed, intended for use in, or authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the respective divisional president of Power-One, Inc.

TECHNICAL REVISIONS - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.