



HA / HD48 Series

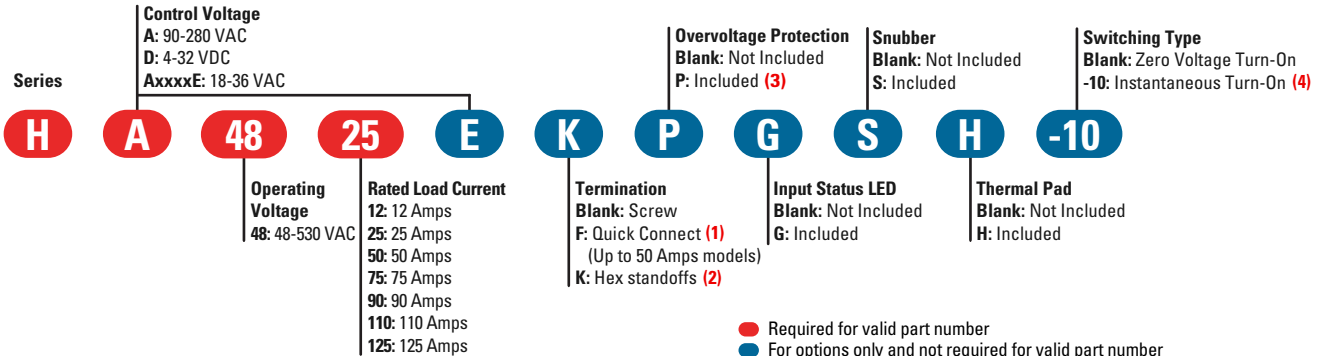
- Ratings from 12A to 125A @ 48-530 VAC
- SCR output for heavy industrial loads
- Zero Voltage or instantaneous turn-on outputs
- UL/CSA/VDE Approved, CE Compliant to EN60950-1
- Improved SEMS screw and washer
- Redesigned housing with anti-rotation barriers
- AC or DC control
- Direct bond copper substrate
- EMC compliant to Level 3
- Direct power lead frame
- Epoxy free design

For **Generation 3** datasheet [click here](#)

PRODUCT SELECTION

Control Voltage	12A	25A	50A	75A	90A	110A	125A
4-32 VDC	HD4812	HD4825	HD4850	HD4875	HD4890	HD48110	HD48125
90-280 Vrms	HA4812	HA4825	HA4850	HA4875	HA4890	HA48110	HA48125
18-36 Vrms	HA4812E	HA4825E	HA4850E	HA4875E	HA4890E	HA48110E	HA48125E

AVAILABLE OPTIONS



- Required for valid part number
- For options only and not required for valid part number
- * Not all part number combinations are available. Contact Crydom Technical Support for information on the availability of a specific part number.

OUTPUT SPECIFICATIONS ⁽⁵⁾

Description	12A	25A	50A	75A	90A	110A	125A
Operating Voltage (47-440Hz) [Vrms] ⁽⁶⁾	48-530	48-530	48-530	48-530	48-530	48-530	48-530
Transient Overvoltage [Vpk]	1200	1200	1200	1200	1200	1200	1200
Maximum Off-State Leakage Current @ Rated Voltage [mA] ⁽⁷⁾	1	1	1	1	1	1	1
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec]	500	500	500	500	500	500	500
Maximum Load Current [Arms] ⁽²⁾⁽⁸⁾	12	25	50	75	90	110	125
Minimum Load Current [mA]	150	150	150	150	150	150	150
Maximum 1 Cycle Surge Current (50/60Hz) [A] ⁽⁹⁾	134/140	239/250	597/625	954/1000	1145/1200	1432/1500	1670/1750
Maximum On-State Voltage Drop @ Rated Current [Vrms]	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Thermal Resistance Junction to Case [Rjc] [°C/W]	1.03	0.8	0.45	0.3	0.27	0.25	0.22
Maximum 1/2 Cycle I ² t for Fusing (50/60Hz) [A ² sec]	66/60	285/259	1770/1629	4555/4150	6560/5976	10249/9338	13950/12709
Minimum Power Factor (at Maximum Load) ⁽³⁾	0.5	0.5	0.5	0.5	0.5	0.5	0.5