



H12WD Series

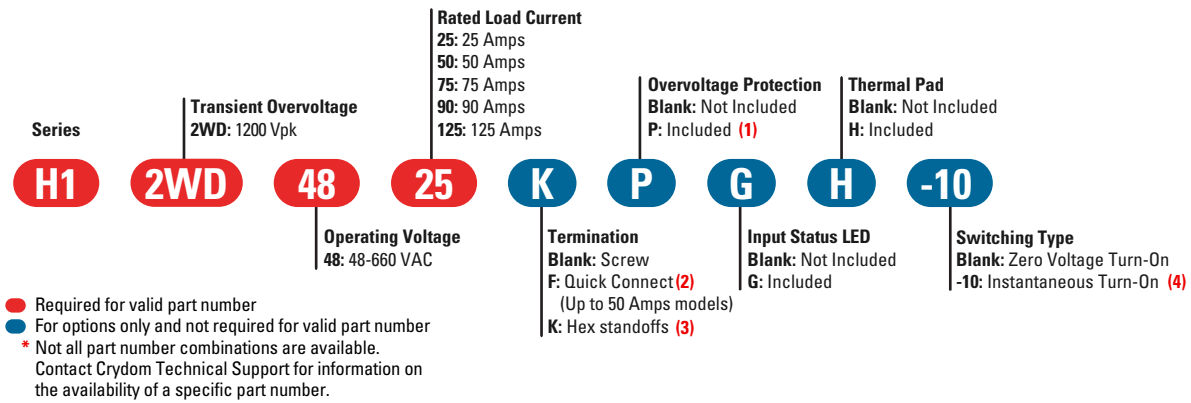
- Ratings from 25A to 125A @ 48-660 VAC
- Low off-state leakage current (snubberless)
- SCR output for heavy industrial loads
- Zero Voltage or instantaneous turn-on outputs
- UL/CSA/VDE Approved, CE Compliant to EN60950-1
- Improved SEMS screw and washer
- Redesigned housing with anti-rotation barriers
- 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	25A	50A	75A	90A	125A
4-32 VDC	H12WD4825	H12WD4850	H12WD4875	H12WD4890	H12WD48125

AVAILABLE OPTIONS



OUTPUT SPECIFICATIONS ⁽⁵⁾

Description	25A	50A	75A	90A	125A
Operating Voltage (47-440Hz) [Vrms]	48-660	48-660	48-660	48-660	48-660
Transient Overvoltage [Vpk]	1200	1200	1200	1200	1200
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	1.0	1.0	1.0	1.0	1.0
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/usec]	500	500	500	500	500
Maximum Load Current [Arms] (6)(3)	25	50	75	90	125
Minimum Load Current [mArms]	150	150	150	150	150
Maximum 1 Cycle Surge Current (50/60Hz) [Apk]	239/250	597/625	954/1000	1145/1200	1670/1750
Maximum On-State Voltage Drop @ Rated Current [Vrms]	1.15	1.15	1.15	1.15	1.15
Thermal Resistance Junction to Case (Rjc) [°C/W]	0.8	0.45	0.3	0.27	0.22
Maximum 1/2 Cycle I ² t for Fusing (50/60Hz) [A ² sec]	285/259	1779/1621	4555/4150	6560/5976	13950/12709
Minimum Power Factor (at Maximum Load) (7)	0.5	0.5	0.5	0.5	0.5

INPUT SPECIFICATIONS ⁽⁵⁾

Description	DC Control
Control Voltage Range	4-32 VDC
Minimum Turn-On Voltage (7)	4.0 VDC
Must Turn-Off Voltage	1.0 VDC
Maximum Reverse voltage	-32 VDC
Minimum Input Current	7 mADC
Maximum Input Current	12 mADC
Nominal Input Impedance	Current Regulated
Maximum Turn-On Time [msec] (8)	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle