

CPF SERIES



- Back to back dual SCR output for heavy industrial loads
- Ratings up to 25 amps at 660Vac
- Zero-crossing (resistive loads) or random-fire (inductive loads) output
- Pinout compatible with standard 0.6" I/O Modules
- UL/cUL Recognized, & VDE approved, CE Compliant

Output Specifications

Voltage range (Vrms)	12-280Vac	48-660Vac
Peak voltage (Vpk, t = 1 min.)	600	1200
Off-state leakage mArms	0.1	0.1
(@ max. line voltage & Ta = 25°C)		
Output current (Arms)		
Forced Air	25	25
Convection	10	10
Minimum current (mArms)	60	60
Max. 1 cycle surge current (Apk, Ta = 25°C)	250	250
I ² T (60Hz, ½ cycle)	260	260
Max. forward voltage drop (Vpk @ I _{max} , Ta = 25°C)	1.6	1.6
Static off-state dv/dt (V/μs, Ta = 25°C)	500	500
Power factor (min.) with max load	0.5	0.5

Input Specifications

Input voltage	3-15Vdc	4-15Vdc
Drop out voltage	1Vdc	1Vdc
Typical input current (@5Vdc)	15 mAdc	15 mAdc
Nominal Input Resistance (Ohms)	300	240
Max. turn-on time*	1/2 AC Cycle	
Max. turn-off time	1/2 AC Cycle	

* Random SSR's turn on in less than 100μs

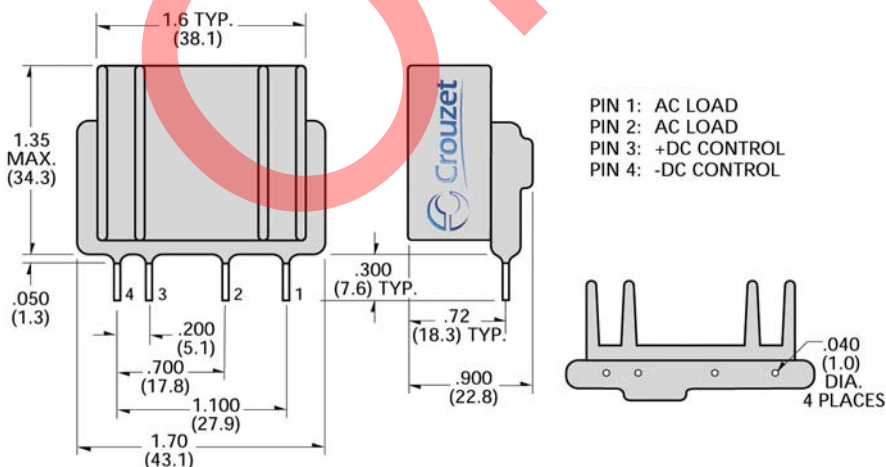
General Characteristics

Operating Temperature (°C)	-30 to + 80
Storage Temperature (°C)	-30 to + 125
Input to output isolation	4000Vrms
Input to output capacitance	10pF (typical)
Operating Frequency	47 to 63 Hz
Encapsulation	Thermally Conductive Epoxy
Weight (typical)	0.85 oz. (25g)

Standards of Compliance

CE Compliant with the LVD 73/23/EEC
UL Recognized
VDE Approved

All dimensions are in inches (millimeters)



Part Numbers

Zero-Crossing Output (resistive loads)			
Rating	Output	Input	Part Number
25 Amp	12-280Vac	3-15VDC	CPF240D25
25 Amp	48-660Vac	4-15VDC	CPF480D25
Random Fire Output (inductive loads)			
Rating	Output	Input	Part Number
25 Amp	12-280Vac	3-15VDC	CPF240D25R
25 Amp	48-660Vac	4-15VDC	CPF480D25R

CURRENT DERATING CURVES

Fig.1 Convection Cooling

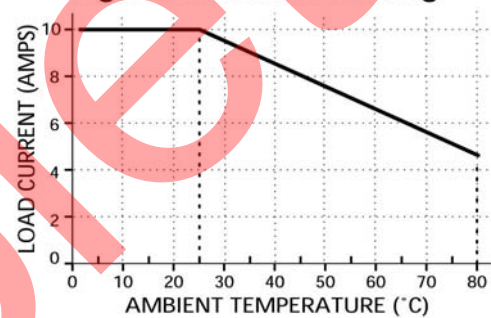


Fig.2 Forced Air Cooling

