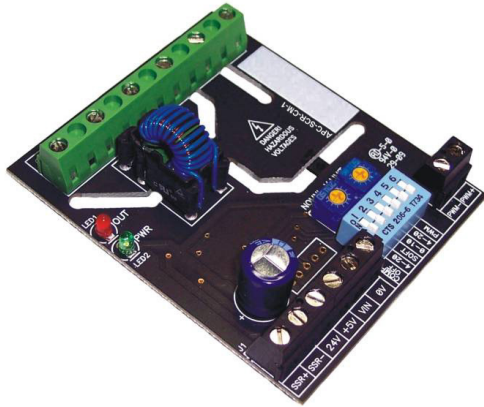




Phase Angle Controller Card - High Current Back-to-Back SCR Modules



The microprocessor based APC-SCR-CM-1 provides true linear phase angle control of resistive and inductive loads. The output power is proportional to the command input which can be dip switch selected from six different industry standard inputs. The output can drive SSRs or SCR gates directly.

Standard Features:

- Provides true linear power output phase angle control and burst fire control.
- Small 3.0" x 2.5" module mounts in a snap track or a dinrail.
- Command input accepts 4-20mA, 0-10V, 0-5V, Pot, PWM.
- Configurable line voltage compensation increases stability of your process.
- Configurable soft start for high inrush loads.
- Wide frequency operation (30 to 90Hz).
- Adjustable Voltage Limit.
- Drives SCR gates directly.
- Single phase and three phase control.

ORDERING CODES		DIMENSIONS	
Ordering Codes APC-SCR-CM-1P- - Power Control Module _____ Single Pole _____ Phase Angle _____ SCR or SSR _____ -SSS (Softstart Time, seconds) -SSC (Soft Change Time, seconds) -REV (Reverse Acting Output) -PWM (PWM Input)		<p>APC-SCR-CM-1 MODULE (ALONE)</p>	
APC-SCR-CM-1P -SSR	Phase Angle Control Module SSR DRIVE	<p>APC-SCR-CM-1 MODULE (MOUNTED IN SNAP TRACK)</p>	
APC-SCR-CM-1P -SCR	Phase Angle Control Module SCR GATE DRIVE		
INPUT SPECIFICATIONS			
Power Supply	24 VAC +/-10%, 100 mA max		
Frequency Range	47-63Hz 24V power supply, 30-90Hz synch input		
Command Inputs	4-20mA, 0-20mA, 0-5V, 1-5V, 0-10V, 2-10V, Pot, PWM		
Command Input Impedance	10K (0-10V), 250 Ohms (4-20mA), 100K (0-5V)		
PWM Input Frequency Range	500Hz – 15KHz		
External Potentiometer Resistance	10-25KOhm		
OUTPUT SPECIFICATIONS			
SSR Control Output	SSR Drive, DC Pulse, nominally 10V @ 20mA		
SCR Drive Output	16KHz Burst for 1.35mS every half cycle. Initial pulse peak current of 600 mA, maintain pulses, 300mA, 10uS pulse width per pulse, rise time of 100nS		
Response Time	30mS		
Linearity	2%		
Default Softstart Period	5 seconds to reach 100%		
Voltage Limit Adjustment Range	5-100% of max. Output voltage		
Line Voltage Compensation Range	+/-15% up to 100% output power		
Regulation	+/-2%		
THERMAL SPECIFICATIONS			
Operating Temperature Range	0 to 50 degrees C		
Storage Temperature Range	-40 to 100 degrees C		
DIP SWITCH SELECTIONS			
Feature to Enable	1	3	
Line Voltage Comp Enabled (default)	OFF	OFF	
None	ON	OFF	
Soft Start Only Enabled	ON	ON	
Soft Start & Line Voltage Comp Enabled	OFF	ON	
Command Input	2	4	5 6
0-5V (Default)	OFF	OFF	OFF OFF
Potentiometer	OFF	OFF	OFF OFF
0-10V	OFF	ON	OFF OFF
4-20mA	ON	OFF	ON OFF
1-5V	ON	OFF	OFF OFF
2-10V	ON	ON	OFF OFF
PWM (isolate d input)	OFF	OFF	OFF ON