



Power-Tronics, Inc.

Electrical Power Control Systems

Product Selection Guide 07.08.2011 for Voltage Regulators and Static Exciters

Low Voltage Exciter Field: 1 to 32vdc*

Exciter Amps	0 to 5	6 to 30
Minimum Field Resistance (Ohms)	10	1.73

Product

XR500D**	X	
XR500D + SE350		X

* 1vdc to 25vdc nominal, 52vdc continuous forcing voltage.

** Use connection C.

Mid Voltage Exciter Field: 33 to 63vdc*

Exciter Amps	0 to 5	6 to 30	31 to 50	51 to 100
Minimum Field Resistance (Ohms)	21	3.5	2.1	1.1

Product

XR500D**	X			
XR500D + SE350		X		
XR500D + (2) SE350			X	
XR500D + SEM100A***				X

* 32vdc to 63vdc nominal, 105vdc continuous forcing voltage.

** Use connection B.

*** The SEM100A is an Exciter Module and not a complete Static Exciter.

High Voltage Exciter Field: 64vdc to 125vdc*

Exciter Amps	0 to 5	6 to 30	31 to 50	51 to 100	101 to 200	201 to 300	301 to 600
Minimum Field Resistance (Ohms)	42	7	4.2	2.1	1.05	0.7	0.35

Product

XR500D**	X						
XR500D + SE450		X					
XR500D + (2) SE450			X				
SE1500BX				X			
SE2000BX					X		
SE3000BX						X	
SE6000BX							X

* 63vdc to 125vdc nominal, 210vdc continuous forcing voltage.

** Use Connection A.

High Voltage Exciter Field: 125 to 250vdc Three Phase Rectification*

Exciter Amps	200	300	600
Minimum Field Resistance (Ohms)	1.25	0.83	0.41

Product

SE2000B-3P	X		
SE3000B-3P		X	
SE6000B-3P			X

* 250vdc half controlled bridge