

**Smart power  
Systems**

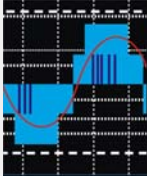
MANUFACTURING INNOVATIVE  
POWER ELECTRONIC SYSTEMS  
FOR THE 21st CENTURY HOMES,  
INDUSTRIES AND DEFENSE.

## SPS 500A PLATING RECTIFIER

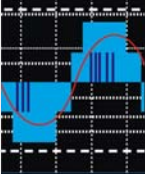


### FEATURES/DESIGN

- Very Low output Ripple.
- Air cooled with Brushless DC fans
- Output Busbars
- Soft swiching switchmode technology
- Polarity Switching
- Manual or Automatic operation
- Compact & Light weight



Sr.No	Specification	Range			Units	Remarks
		Min	Nom	Max		
<b>A Input</b>						
1	Input Voltage Range		480V		VAC	-15% +10%
2	Frequency		60		Hz	+/-2.5%
3	Input Current		36amps			
4	Input PFC	0.9	0.95			Provided
5	No load current		<500		mAmp	At Input 480VAC
<b>B Output</b>						
1	Output Voltage	0		12	VDC	Resolution +/- 0.5%
2	Output Current	0		500	Amps	
3	Output Voltage regulation		0.25		%	+/-1%
3	Output Current Regulation		0.25		%	+/-1%
4	Over current protection	5		525	Amps	Adjustable. Selectable
5	Over Volatge protection	5		13	VDC	Adjustable. Selectable
6	Efficiency	90%			%	
7	Maximum Output power			6000	W	at 12V 500amps
<b>C Alarms/Indicators</b>						
1	Input Phase Loss, Unbalance Trip					
2	Input Undervoltage, over voltage Trip					
3	Output control Failure Trip					
<b>D User Interface</b>						
1	<b>Module Health (Fault) Indicator front panel</b>					
2	Overtemperature					Unit trips above 60 Deg. & restarts when temperature is bellow 45 Deg
3	Input Phase Loss	common Potential free contact for all faults				
4	Input Under /over voltage Protection					
5	loss of control					
6	Front panel programming Potentiometers	For Voltage and current programming				Ten turn Potentiometers
7	User selectable interface with keys	For Attempts before tripping				
		For Input Voltage & Current Readbacks				
		Local Remote Programming & control.				
		Diagnostics				
		Ramp Time ,Rate & Min. max. Current values				
		Rectifier output Polarity Reversal				
8	Output On/Off switch					
9	Power Circuit Breaker Switch					
10	Master Slave Paralleling	Back Panel wiring				
<b>E DISPLAY</b>						
		<b>Output Voltage &amp; Current</b>				
		Amp Hour, Input Voltage & Current				
<b>REMOTE PROGRAMMING AND MONITORING</b>						
	4-20ma- 4 channels	Voltage & Current Programming, two additional programming inputs				
		Programming inputs for desired operation				
	4-20ma Voltage & Current Readback					
	Dry Contact for failure warning					
	RS-485 interface.					
<b>PHYSICAL DATA</b>						
	Weight	44 kg/ 97 lbs				
	Size	W: 482mm / 19" , H: 5U - 222mm / 8.75" , D - 574mm / 22.6"				
	Operating temperature & Humidity	0-50Deg C 95%RH				
	Shock					Standard Transit
	Compliance					Meets CE & U/L requirements. IEE519 Compliant



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