

# 24VDC A Series rectifier



1. Switch Mode Power Supply,**Reliability**;
2. Hot swappable and Plug and Play,**Modularity**;
- 3.N+1 redundancy,each module available in 60A@24Vdc, **Scalability and Flexibility**;
- 4.AC /DC distribution system for AC input/ DC output;

5.RS232, RS485, SNMP communication for remote control;

6.Compact design and embedded modular system, support power system and module sleep, efficient mixing, energy saving;

7.High Efficiency with low EMI. CE Safety and EMC certification;

8.Protection for Input and output over /under voltage,short circuit and over temperature.

MODEL	A220/ 24-60M1	A220/ 24-180M3	A220/ 24-240M4	A220/ 24-360M6	
<b>Configuration</b>	1pcs 24V/60A module +1pcs monitor	3pcs 24V/60A module +1pcs monitor	4pcs 24V/60A module +1pcs monitor	6pcs 24V/60A module +1pcs monitor	
<b>Environmental</b>	Operating temperature	-40°C ~ 55°C			
	Storage temperature	-40°C ~ 70°C			
	Relative humidity	5%~95%RH (40±2°C, no condensation)			
	Atmospheric pressure	62kPa~106kPa			
	Altitude	≤ 2000m (derating is necessary above 2,000m)			
<b>AC Input</b>	AC input system	L+N+PE/220Vac			
	Input voltage range	90VAC ~ 290VAC			
	Input AC voltage frequency	45Hz ~ 65Hz			
	THD	<5% (@230Vac, full load)			
	Power factor	≥ 0.99			
<b>DC Output</b>	Rated output voltage	24VDC			
	Adjustable output voltage	20VDC-30VDC continuously adjustable			
	System output current	60A	180A	240A	360A
	System load regulation	≤±0.5%			
	System voltage	≤±0.5%			
	System stability	≤±0.5%			
	Efficiency	≥ 93.2%			
	Current sharing	module current sharing not more than ±5%			
	Weighted noise	≤ 2mV (300Hz ~ 3400Hz)			
	Output distribution	MCB optional			
<b>Rectifier module unit</b>	Rectifier hot-swap	Hot-swap available,not influencing system operation			
	Rectifier indication	with operation,alarm,and fault indicators			
	Soft start time	3s-10s			
	Installation method	support swappable			
	rectifier fault influence	Not influencing the set parameters of rectifier when rectifier at fault			
<b>Monitor module unit</b>	Remote monitoring	With remote metering & remote control & remote signaling functions. providing standard RS485&TCP/IP Interface and 6 sets of the dry contact output port & Battery Temp.Sensor			
	Language	Default: English			
	Remote control	rectifier start and close,battery test, equalize and float charging ,DIN /DO configuration and so on			
Alarm functions	With AC over voltage/under voltage,DC voltage over/under,module Communication fault and over temperature alarm,Battery remove,Surge and so on				
<b>SAFETY</b>	Insulation resistance	Testing voltage 500VDC, Insulation Resistance ≥10M (normal atmospheric pressure, normal temperature, relative humidity <90%, no condensation)			
	Insulation strength	Input to output: 3500VDC @1min&leak current ≤10mA Input to enclosures: 3500VDC @1min&leak current ≤10mA Output to enclosures:750VDC @1min&leak current ≤10mA			
	System leak current	≤3.5mA (230Vac input)			
	Grounding performance requirements	The system with operating ground and protection ground,with clear mark,the resistance between the enclosures of distribution and all palpable metal components and grounding nut is not more than 0.1Ω			
	AC lightning protection	The equipment AC side can bear simulated lightning impulse Current of waveform 8/20μS and rated amplitude 40kA,(Optional)			
	Noise	≤55dB (A) (measured at 1m distance from the equipment)			
MTBF	≥ 100000 hours				