

A220 SERIES
POWER RECTIFIER



MODEL		A220/24-60M1	A220/24-180M3	A220/48-50M1	A220/48-150M3
Configuration		1pcs 24V/60A module +1pcs monitor	3pcs 24V/60A module +1pcs monitor	1pcs 48V/50A module +1pcs monitor	3pcs 48V/50A module +1pcs monitor
Environmental	Operating temperature	-40℃ ~ 55℃			
	Storage temperature	-40℃ ~ 70℃			
	Relative humidity	5%~95%RH(40±2℃no condensation)			
	Atmospheric pressure	62kPa~106kPa			
	Altitude	≤ 2000m (derating is necessary above 2,000m)			
AC Input	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			
DC Output	Rated output voltage	24VDC		48VDC	
	Adjustable output voltage	20VDC-30VDC continuously adjustable		40VDC-60VDC continuously adjustable	
	System output current	60A	180A	50A	150A
	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			

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MODEL		A220/110-20M1	A220/110-40M2	A380/110-60M3	A380/110-100M5	A380/110-140M7
Configuration		1pcs 110V/20A module +1pcs monitor	2pcs 110V/20A module +1pcs monitor	3pcs 110V/20A module +1pcs monitor	5pcs 110V/20A module +1pcs monitor	7pcs 110V/20A module +1pcs monitor
Environmental	Operating temperature	-40°C ~ 55°C				
	Storage temperature	-40°C ~ 70°C				
	Relative humidity	≤ 90%RH (30°C)				
	Altitude	≤ 2000m (derating is necessary above 2,000m)				
AC Input	AC input system	L + N + PE/220Vac		L1+L2+L3+N/380Vac		
	Input voltage range	90VAC ~ 280VAC		323-437VAC		
	Input AC voltage frequency	45Hz ~ 65Hz				
	Max input current	≤28.4A				
	Power factor	≥ 0.99				
DC Output	Nominal output voltage	110VDC				
	Rated output voltage	121VDC				
	Rated output capacity	2.5kW	5kW	7.5kW	12.5kW	17.5kW
	Output DC voltage	90VDC ~ 150VDC				
	Output DC current	20A	40A	60A	100A	140A
	Voltage set-point accuracy	≤ 1%				
	Efficiency	≥ 93.2%				
	Noise (peak-peak)	≤ 200mV (0 ~ 20MHz)				
	Weighted noise	≤ 2mV (300Hz ~ 3400MHz)				
AC Input Alarm and Protection	AC input over-voltage alarm point	Default: 280VAC ± 5VAC*				
	AC input under-voltage alarm point	Default: 176VAC ± 5VAC				
	AC input over-voltage protection recovery difference	Default: 295VAC ± 5VAC, 10VAC lower than the AC input over-voltage protection point				
	AC input under-voltage protection point	Default: 180VAC ± 5VAC*				
DC Output Alarm and Protection	DC output over-voltage alarm point	Default: 149VDC ± 0.5VDC*				
	DC output under-voltage alarm point	Default: 90VDC ± 0.5VDC*				
	DC output over-voltage protection point	Default: 97.2VDC ± 0.5VDC*				
	LLVD	Default: 99VDC ± 0.5VDC*				
	BLVD	Default: 97.2VDC ± 0.5VDC*				
Rectifier	Load sharing	The rectifiers can work in parallel and share the current. The unbalance is better than ±5% rated output current.				
	Derated by input (at 45°C)	The rectifiers can output power of 100% with input voltage of ≥154VAC; The rectifier can output power capacity 1200W with input voltage <154VAC; Rectifiers under-voltage stop with input voltage of 85VAC				

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GENEXIS

Rectifier module unit	Rectifier hot-swap	Hot-swap available.not influencing system operation
	Rectifier indication	with operation.alarm.and fault indicators
	Soft start time	3s-10s
Monitor module unit	Remote monitoring	standard RS485,TCP/IP,SNMP Interface and 6 sets of the dry contact output port & Battery Temp.Sensor
	Remote control	rectifier start and close.battery test. equalize and float charging ,DIN /DO configuration
	Alarm functions	With AC over voltage/under voltage.DC voltage over/under.module Communication fault and over temperature alarm,Battery remove,Surge
SAFTEY	Insulation resistance	Testing voltage 500VDC, Insulation Resistance $\geq 10M$ (normal atmospheric pressure, normal temperature, relative humidity <90%, no condensation)
	Insulation strength	Input to output: 3500VDC @1min&leak current $\leq 10mA$ Input to enclosures: 3500VDC @1min&leak current $\leq 10mA$ Output to enclosures:750VDC @1min&leak current $\leq 10mA$
	System leak current	$\leq 3.5mA$ (230Vac input)
	Grounding performance requirements	$< 0.1\Omega$
	AC lightning protection	40kA.(Optional)
	Noise	$\leq 55dB$ (A) (measured at 1m distance from the equipment)
	MTBF	≥ 100000 hours