



TECHNICAL BROCHURE
Y212-WS3K-6K-12K RPS



RPS WATERSECURE™ SOLAR HYBRID INVERTER

RPS | Rural Power Systems
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Woodland, Ca 95776

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RPSsolarpumps.com*

888-637-4493



		WS 3K	WS 6K	WS 12K
AC Input	<i>Input Voltage Waveform</i>	Pure Sine (utility or generator)		
	<i>Nominal Input Voltage</i>	230VAC		
	<i>Low Line Disconnect</i>	184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac		
	<i>Low Line Reconnect</i>	194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac		
	<i>High Line Disconnect</i>	263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac		
	<i>Max AC Input Voltage</i>	230Vac for Max270Vac		
	<i>Frequency</i>	50Hz:41-54Hz, 60Hz:51-64Hz		
AC Charger	<i>Nominal Charge Current</i>	20A/35A/50A/70A (5 stages adjustable charging current)		
	<i>Over Charge Protection</i>	Bat.V≥31.0VDC for 24V battery, Beep Pattern 0.5s every 1s	Bat.V≥62.0VDC for 48V 0.5s every 1s & fault after 60s	
Solar Charger	<i>Rated Charge Current</i>	60A		
	<i>PV Input Voltage range</i>	30VDC-55VDC for 24VDC	60-110VDC for 48V	
	<i>Max.PV open circuit array voltage</i>	24V for 55VDC, 48V for 110VDC		
	<i>Charger mode</i>	MPPT		
	<i>PV Low Voltage Reconnect</i>	PV≥Bat.V+3V		
	<i>PV Low Voltage Disconnect</i>	PV≤Bat.V		
	<i>Efficiency</i>	≥97%		
Charger	<i>Nominal Charger Current</i>	20A/35A/50A/70A (According to the inverter model), adjustable 5 stages charging current		
	<i>Over Charge Protection</i>	Bat.V≥15.5VDC/31VDC/62VDC,beeps 0.5s every 1s & fault after 60s		
Efficiency	<i>Efficiency (Battery Mode)</i>	>87%		
	<i>Efficiency (Line Mode)</i>	>98%		
Battery Voltage	<i>Nominal DC Input Voltage</i>	24VDC	48VDC	
	<i>Low Battery Alarm</i>	21VDC±0.6VDC for 24VDC	42VDC±1.2VDC for 48VDC	
	<i>Low DC input shut-down</i>	20VDC±0.6VDC for 24VDC	40VDC±1.2VDC for 48VDC	
	<i>High DC input Alarm & Fault</i>	32VDC±0.6VDC for 24VDC	64VDC±1.2VDC for 48VDC	
Transfer Time	<i>AC to DC</i>	20ms(max)		
	<i>DC to AC</i>	15ms(max)		
System Parameter	<i>Overload Protection</i>	100%<load<150%, beeps 0.5s every 1s, and Fault after 60s off the output, load>150% beeps 0.5s every 1s, and Fault after 20s		
	<i>Output Short Circuit Protection</i>	Current limit (Fault after 10s)		
	<i>Surge Rating (10s)</i>	1:2(VA)		
	<i>Power Saver Mode</i>	Load≤25W Enabled by default		
	<i>Protections</i>	Low battery, over charging, overload, over temp		
	<i>Indicators</i>	LED+LCD Display		
General Specifications	<i>Operating Temperature Range Vs Storage</i>	-13°C to 40°C -15°C~60°C		
	<i>Operation humidity</i>	5% to 95%(non-condensing)		
	<i>Audible Noise</i>	60dB max		
	<i>Cooling</i>	Forced air, variable speed fan		
	<i>Dimension (L*W*H)</i>	480*336*190mm	530*400*190mm	627*416*204mm
	<i>Net Weight (kg)</i>	28.0kg	39.0kg	66.5kg