High Voltage DC

RD Series

R310D & R510D

Battery independence

Renon DPS systems focus on the independence of each part of the power supply. The combination of redundant technology and battery backup design ensures that even if one part fails, the whole system can operate stably. In addition, the local power supply is designed with safety and thermal efficiency in mind, providing you with a long-lasting and reliable power solution.

Design Flexibility

We understand the variability of power requirements. Renon DPS systems are designed to be flexible and easy to optimize and adjust. Whether you are designing for the first time or adjusting at a later stage, our systems can be easily adapted to meet your needs and avoid unnecessary waste.

High efficiency

Renon DPS specializes in efficient power supply. By minimizing line losses and ensuring a tight connection between the power supply and the load, we ensure high output voltage stability and overall system efficiency.

Reduced distribution losses

Our distributed power supply design helps reduce transmission and distribution losses, saving you money. At the same time, Renon DPS can also reduce the need for new distribution stations, further reducing your investment costs.

EMC performance

Renon DPS systems utilize advanced EMI suppression technology. We ensure that high-current fluctuations do not affect low-current power supplies, and we minimize the current impact of the system by time-starting large loads.

Peaking performance

Compared to other DPS systems, Renon DPS meets the peaking needs of the grid even better. Fast start/stop and simple operation, it also supports full automation for your operation.

Model	R310D	R510D
Power	3000~10000	
Input/Output	Two 220VAC inputs, One 220VAC output, Two 240VDC outputs	

Input

Input Voltage	220VAC Single phase
Voltage Range	176~300VAC
Frequency Range	40~70 Hz
Power Factor	≧ 0.99

Output

Output Current	10~35A
Rated Output Voltage	240VDC Single Circuit
Output Voltage Range	204~288VDC
Current Adjustable Range	10%~110% infinitely adjustable
Voltage Accuracy	± 0.5%
Peak-peak Noise Voltage	≦2%
Loading Effect	≦2%
Efficiency	≧ 94 %
Current Balance	≦± 3%
Battery Charge Current	0.2C (Typical)

Battery

Battery Type	230V 15AH(2U)	230V 27AH（4U）
Charging Current	3A±10%	6A±10%
Charging Time	5h	

General Parameters

Cabinet W*D*H(mm)	440*800*133(3U)	440*800*222(5U)
Cabinet(Kg)	20	25
Module(Kg)	33-60	
Storage and transportation temperature	-25~55°C	
Operating temperature	0~45°C	
Working humidity	<95 % without condensation	
Working altitude	<2000m	
work noise	< 55dB @ 1 m	

AC Online

RA Series

R406A & R610A

Highly compatible

Renon DPS is designed with the diverse needs of today's power grids and data centers in mind. Considering that the majority of equipment operates on AC power, our AC On-Line DPS connects directly to standard AC power sources, ensuring seamless compatibility with all types of equipment.

Wide range of application scenarios

From large data centers to complex enterprise environments, Renon DPS can provide you with a stable power solution. Whatever your needs, our DPS products can fulfill them, providing continuous power to many types of equipment and applications.

Reliability

You can rely on the Renon DPS to provide you with continuous power in the event of grid problems or instability. With switching speeds as fast as milliseconds, it ensures that connected equipment remains operational in the event of a power interruption, reducing downtime and potential losses.

Stable power supply

Renon DPS features advanced power conditioning technology that continuously adjusts its output to ensure a stable, high-quality power supply for connected equipment at all times.

Model		R406A	R610A
Power		6kVA/6kw	10kVA/10kw
Input			
Input Voltage		220VAC	
Voltage Range		120~280Vac @ (0~50%)Load 160~280Vac @ (50~75%)Load 176~280Vac @(75~100%)Load	
Frequency Range		46Hz ~ 54 Hz @ 50Hz System 56Hz ~ 64 Hz @ 60Hz System	
Power Factor		≧ 0.99	
Output			
Output Voltage		208/220/230/240VAC	
Voltage Accuracy		± 1%	
Frequency Range (Synchronization Range)		46Hz ~ 54 Hz @ 50Hz System 56Hz ~ 64 Hz @ 60Hz System	
Frequency Range (Battery mode)		50 Hz ± 0.1 Hz Or 60Hz ± 0.1 Hz	
power factor		≥ 0.9	
peak factor		3:1 max	
harmonic distortion		≤ 1 % @ 100% linear load; ≤ 4 % @ 100% non-linear loads	
switching time	Grid to Battery Invert to Bypass Invert to ECO	0 ms 0 ms <10 ms	
Input/Output Forms		1 input and 2 outputs or 2 inputs and 2 outputs	
Power			
Utility mode		> 95%	
Battery Mode		> 93%	
Battery			
Battery Type		230V lithium battery	
battery capacity		10AH/15AH/20AH/25AH/30AH	
Battery Net Weight		30~60	
General			
Chassis Dimensions D*W*H (mm)		750*440*177(4U)	750*440*266(6U)
Net weight of mainframe		34	38
Storage temperature		-25~55°C	
Operating Temperature		0~45°C	
Operating humidity		<95 % without condensation	
Operating altitude		<2000m	
Operating noise level		< 55dB @ 1 m	