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PRECISION COOLING SYSTEM

# DATA-R SERIES

AIR COOLED

## Products and Solutions

01

- Data Center Solution : Micro Data center, Modular Data Center, Prefabricated Container Data Center.
- Critical Power : PDU,UPS,DC Power System, Lead Acid Battery, Lithium battery.
- Thermal Management Solution : Room /In row precision air conditioner, Fluorine pump air conditioner Liquid cooling, Free cooling.
- PV Energy Storage : PV, Inverter, Energy Storage System.

02

- Shuyi attaches great importance to product innovation and research and development.Having industry-leading power electronics research and development centers, testing centers, and laboratories.

03

- At present, we have established industry-leading electromagnetic compatibility laboratories, including Enthalpy difference laboratory, Environmental reliability laboratory, Noise laboratory, Vibration laboratory, Power laboratory, and IP protection laboratory. We have obtained ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have been certified by CE,ICE, UL certification.

# COMPANY

## PROFILE

Shuyi digital power, based on the core technology of power electronics, integrates innovative digital technology, provides comprehensive solutions for data center, high-end power supply and clean energy, promotes the transformation and development of digitalization and low-carbon energy in government, finance, industry, communication, transportation, Internet and other industries.

## INTRODUCE

With over 10 years of development, we have exported our various kinds of products and solutions to 86 countries and have branches and offices in over 55 countries and regions. Our products and solution won a good reputation in quality and service.

### Mission

Committed to innovation in digital energy technology and building a green and intelligent future.

### Vision

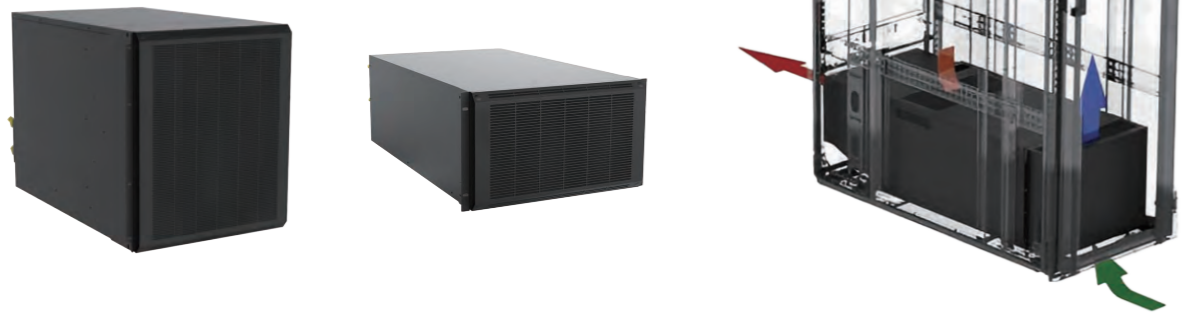
Serve global customers and become a leading expert in digital Power infrastructure.

# SOETECK

Hefei Shuyi Digital Power Co., Ltd.

# Air Cooled Package Type

- Air cooled package type cooling unit, mounted at bottom or rack. No complex installation.
- Capacity: 3.5kW  
Height: 8U



- 1 - Industry top brand compressor. Highly reliable and efficient.
- 2 - Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- 3 - Compatible with standard rack size forms unified and integrated micro data center solution.
- 4 - Packaged design easy for installation, service and shipping.
- 5 - Rack mount means good air management of hot/cold stream and no concern of water leak.
- 6 - Green refrigerant is highly efficient and no ODP.

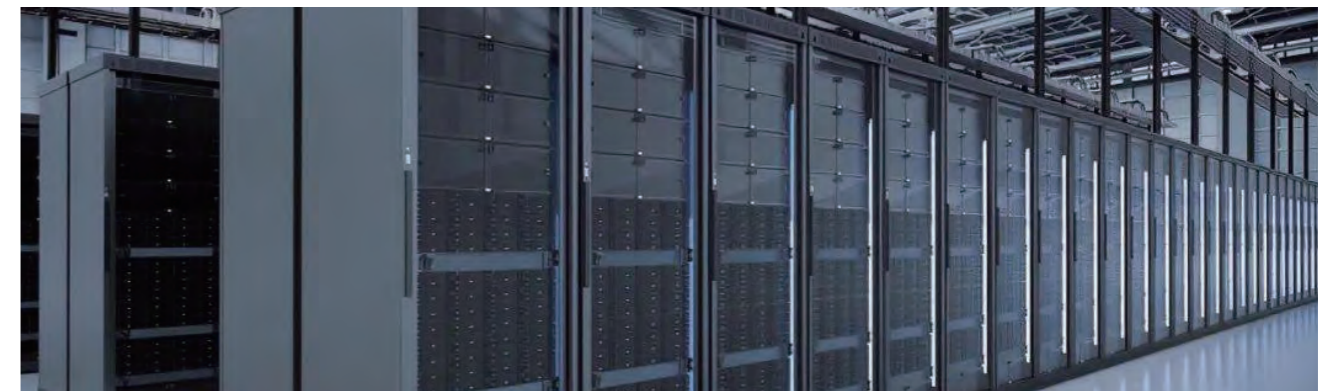
## Model Configuration

SY	Company identification	SOETECK
JA	Unit type	Rack One Piece
003	Nominal cooling capacity	3KW
RH	Heating and humidification type	Constant temperature and humidity

## Technical Data

Model	SY-JA003
Total Capacity - kW	3.5
SHR-%	100
Airflow -m3/h	750
Reheat -kW	1.2
Humidification -kg/h	N/A
Mount Type	Rack Bottom
Power Input	220V/50Hz/60Hz/1Ph
Height -mm	355 (8U)
Depth -mm	900
Width -mm	440
Weight -kg	45
Cooling Type	Air Cooled DX
Refrigerant	R410A
FLA -A	13.5
Monitoring Port	RS485
Working Range-°C	-15 - 45

Notes:  
1.Cooling capacity based on 37°C/24%RH return air and 35°C outdoor air.  
2.Options including SNMP monitoring protocol.



# Air Cooled Rack Mount

- Air cooled, rack mount, split type, suitable for micro data center, mini modular data center solutions.

- 3.9kW-12.0kW



- 1 - Inverter compressor and EC fan works at high efficiency, maintains temperature within envelop and prevent compressor from cycling during low heat load period.

- 3 - Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.

- 5 - Copper piping adopts quick connection and supports bottom and top connections.

- 7 - R410A green refrigerant is highly efficient and no ODP.

- 2 - Standard rack mount structure fully compatible with server rack is flexible for future expansion.

- 4 - Slide drawer style electric box makes service easier.

- 6 - Compressor locating in outdoor unit lowers the noise level then better suits customer expectation of mini data center application.

- 8 - Front air outlet suitable for installation on flexible height in a rack.

## Technical Data

Model	SY-JAF-003	SY-JAF-005	SY-JAF-007	SY-JAF-012
Total Capacity-kW	3.5	6.5	8.5	12.5
SHR-%	100	100	100	100
Air Volume -m3/h	750	1100	1200	2400
Mount Type	Rack	Rack	Rack	Rack
Height -mm	266(6U)	355(8U)	445(10U)	533(12U)
Depth -mm	828	828	828	828
Width -mm	483	483	483	483
Weight -kg	31	43	52	70
Reheat(optional) -kW	1.2	1.2	2.4	2.4
Hum.(optional) -kg/h	-	-	-	-
Power Input1)	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	380-415V/50-60Hz/3Ph
FLA -A1)	13.9	15.2	21.6	18
Power Input2)	-	-	-	208V/60Hz/3Ph
FLA -A2)	-	-	-	32.9
Outdoor Unit	SY-W06AC	SY-W08AC	SY-W12AC	SY-W18AC
Height -mm	632	790	790	1240
Depth -mm	395	420	420	420
Width -mm	800	800	800	800
Leg Height -mm	-	-	-	-
Weight -kg	35	38	50	77
Power Input1)	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	380-415V/50-60Hz/3Ph
FLA -A1)	12.5	13.5	19.5	16
Power Input2)	-	-	-	208V/50-60Hz/3Ph
FLA -A2)	-	-	-	29.3

Notes:

- 1, Air flow is based upon maximum setting. Fan modulates per real loads.
- 2, Cooling capacity based on 37°C/24%RH return air and 35°C outdoor temperature with the standard condenser.
- 3, FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
- 4, Standard unit works -15°C and above outdoor temperature. Select low temperature kit to work -35°C and above outdoor temperature.