



YDC9600S-RT **SERIES**

1-3kVA
1:1 phase PF: 0.9

KSTAR

SHENZHEN KSTAR SCIENCE AND TECHNOLOGY CO. LTD.

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1:1 phase PF: 0,9

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FEATURES

- Rack/Tower Convertible design
- Patented mimic LCD display may be rotated by simply pushing front button
- True online UPS (classification type VFI-SS-111)
- High output power factor: 0,9 PF
- Voltage inverter based in IGBTs
- Internal solid state bypass.
- Support ECO operation mode
- Comprehensive display allows easy monitoring and access of the UPS status
- Smart SNMP card works together with either USB or RS-232
- Internal VRLA batteries.
- Optional Hot-Swappable Battery packs
- Estimated remaining battery time displayed on the LCD
- Matching battery pack
- Battery charger according to DIN 41773
- Support cold start
- Power shedding may turn off uncritical load in battery backup
- Network card compatible (model DL801 see card manual for full specs)
- Monitor for input/output/status/statistics through network card.
- Emergency power off
- Audible and visual alarms for main UPS status (bypass/on battery/fail/overload - alarms can be silenced by user at the front panel).



Optional socket
Mini dry contact card



Two directions LCD display



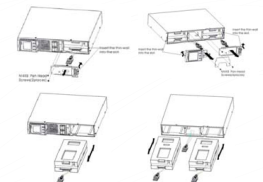
Multifunctional bracket



Rack-Tower convertible



Battery Cabinets (optional)



Easy for maintenance, hot-swappable battery

TECHNICAL SPECIFICATIONS

MODEL	YDC9600S-RT 1-3K	YDC9600S-RT 1-3K	YDC9600S-RT 1-3K	YDC9600S-RT 1-3K	YDC9600S-RT 1-3K
CAPACITY (VA / W)	1000VA / 900W	1500VA / 1350W	2000VA / 1800W	3000VA / 2700W	
INPUT	Harmonic distortion (THDi)	≤7% THDi (100% nonlinear load)			
	Voltage Range	80-145VAC @ full load			
		70-145VAC @70%< load≤80%			
		60-145VAC @60%< load≤70%			
		55-145VAC @load≤60%			
	Frequency Range	44-55Hz@50Hz/55-66Hz@60Hz(auto-detect)			
	Phase	Single phase with ground			
	Power Factor	>0.98			
	Generator Input	Support			
	Input Socket	IEC320 C13-10A	IEC320 C19-16A		
	AC power cord	IEC320 C14-10A	L5-20P	L5-30P	L5-30P
	Max. Input Current (A)	13	15	20	29
	Input breaker required	1x15A	1x20A	1x30A	1x32A
OUTPUT	Voltage	100/110/115/120/127VAC			
	Power Factor	0,9			
	Voltage Regulation	±1%			
	Frequency (Line Mode)	46-54Hz@50Hz/56-64Hz@60Hz			
	Frequency(Battery Mode)	50/60Hz±0.1Hz			
	Current Crest Ratio	3:1			
	Harmonic Distortion	≤3% THD(Linear Load)			
		≤5% THD(Non-Linear Load)			
	Output Waveform	Pure Sinewave			
	Outlet	6x(5-15R)	6x(5-15R)	6x(5-20R)	6x(5-20R)
	Overload Capacity	Line Mode	30S@ 100%-150% ;300ms @ > 150%		
		Battery Mode	30S@ 100%-150% ;300ms @ > 150%		

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	CAPACITY (VA / W)	1000VA / 900W	1500VA / 1350W	2000VA / 1800W	3000VA / 2700W
EFFICIENCY	AC Mode	Full load>=90%			
	Battery Mode	Full load>=84%			
	ECO Mode	Full load>=97%			
BATTERY	Number of Batteries Per Set	2	3	4	6
	Battery Type	12V/9Ah			
	Backup Time	45-55Hz@50Hz/55-65Hz@60Hz(auto-detect)			
	Recharge Time(to 90%)	5 Hours			
	Charging Current(Max)	1.0A for S type			
	Rated Battery Voltage	24VDC	36VDC	48VDC	72VDC
TRANSFER TIME	Mains <- ->Battery	0ms			
	Mains <- ->Bypass	<4ms			
OPTIONAL FEATURES	Economic Mode(ECO Mode)	Supported			
	Frequency converter Mode(Converter Mode)	Supported, set by LCD to 50Hz or 60Hz fixed frequency output			
INDICATOR	LCD Version(with LED)	Load/Battery/Input/Output/Bypass/Operating Mode Information - Battery support time remaining			
AUDIBLE ALARM	Battery Mode	Sounding every 4 seconds			
	Low Battery	Sounding every second			
	Overload	Sounding twice every second			
	Fault	Continuously Sounding			
PHYSICAL	Dimension(W*D*H)mm	440X430X86.5		440X542X86.5	440X720X86.5
	Net Weight(kg)	13,9	17,8	20,1	23,3
ENVIRONMENT	Operating Environment	0-40°C			
	Relative Humidity	0-95%(non-condensing)			
	Noise Level	<50dB@ 1Meter			
INTERFACE	Smart RS-232/USB(Preferential)	External Modbus card supported by RS232,Software supports Windows Family, Linux, FreeBSD			
	Intelligent Slot	Mini SNMP slot (independent to RS232) - Compatible with network card.			
STANDARDS	Safety	UL - 1778 (3rd party certificate)			

TECHNICAL SPECIFICATIONS

MODEL	YDC9600-RT Battery Pack	B24V	B36V	B48V	B72V
CAPACITY	VDC/AH	24VDC/9AH	36VDC/9AH	48VDC/9AH	72VDC/9AH
CHARGER INPUT	Voltage Range	150-285VAC			
	Phase	Single phase with ground			
CHARGER OUTPUT	Output Voltage	(27.4±1)VDC	(41.1±1)VDC	(54.8±1)VDC	(82.2±1)VDC
	Charge Mode	CV mode			
	Phase	Single phase with Battery ground			
BATTERY	Number of Batteries Per Set	2	3	4	6
	Number of Batteries Set	2			
	Battery Type	12V/9Ah			
	Design life (years @25 C):	5			
	Charging Current(Max)	1.4A			
	Rated Battery Voltage	24VDC	36VDC	48VDC	72VDC
	Battery Current protection	60A fast fuse			
	Replace	supports hot plug and play			
	Leakage current	<100uA			
MECHANICAL	Dimension(W*D*H) mm	440X430X86.5		440X542X86.5	440X720X86.5
	Net Weight(kg) (+/-10%)	6,4	9,1	11,8	17,2
I/O SOCKET	Input Socket	IEC320 C13-10A			
	AC power cord	IEC320 C13-10A			
	Battery Socket	Anderson like Power Pole Modular Connectors			

Specifications are subject to change without prior notice.