



UPS (Uninterrupted Power Supply)

YDC3300A 10-100 KVA SERIES

THREE- PHASE ONLINE UPS PF=1.0

KSTAR

SHENZHEN KSTAR SCIENCE AND TECHNOLOGY CO. LTD.

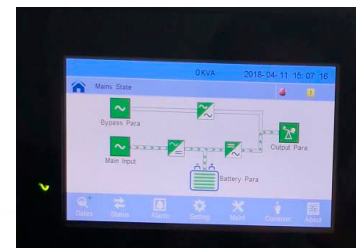
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SERIES**

THREE- PHASE ONLINE UPS PF=1,0

KSTAR**FEATURES**

- True online UPS (classification type VFI-SS-111), true sine waveform.
- Parallel operation with another UPS up to 6 units (no need of external cabinet)
- Voltage inverter based in IGBTs
- Optional VRLA battery packs according to support time.
- Battery charger according to DIN 41773
- Internal solid state bypass.
- Dual feed for mains and bypass input.
- Power factor correction.
- Full digital controller (DSP)
- ECO function available
- Support cold start
- Intelligent battery charge management
- EPO function
- Network card compatible (model CY504 - see card manual for full specs)
- Monitor for input/output/status/statistics through network card.
- Audible and visual alarms for main UPS status (bypass/on battery/fail/overload - alarms can be silenced by user at the front panel).
- Options: SNMP card v3 /relay card



LCD display (optional)

TECHNICAL SPECIFICATIONS

MODEL	YDC3300A		YDC3310A S/H	YDC3315A S/H	YDC3320A S/H	YDC3325A H	YDC3330A H	YDC3350A H	YDC3360A H	YDC3380A H	YDC33100A H
	CAPACITY (KVA / KW)		10KVA / 10KW	15KVA / 15KW	20KVA / 20KW	25KVA / 25KW	30KVA / 30KW	50KVA / 50KW	60KVA / 60KW	80KVA / 80KW	100KVA / 100KW
INPUT	Harmonic distortion (THDi)		≤2% THDi (100% nonlinear load)								
	Rated Voltage		208/120Vac or 220/127Vac, 50/60Hz, 3-Phase, 4-Wire Plus Ground								
	Voltage Range		-20%, +25% (96-150Vac or 102-159Vac), Full load -40%, +25% (72-150Vac or 76-159Vac) , <50% Load								
	Frequency Range		50 Hz +/- 10% , 60 Hz +/-10%								
	Power Factor		>= 0.99								
	Generator Input		Support								
	Bypass Voltage Range		208 Vac (Phase voltage) Upper limit: +10,+15,+20 or 25% (default:+20) Lower limit:-10,-20,-30 or -40 (default:-30) Frequency Range +/-10%								
	Synchronization - Window		±1%/±2%/±4%/±5%/±10% optional (default:±10%)								
	Max current (A)		Breaker50A	Breaker63A	Breaker 80A						
	Upstream protection, bypass line		Thermomagnetic circuit-breaker, rated up to 125% of nominal output current.IEC 60947-2 curve C.								
	Current rating of neutral cable (A)		1.7×In								
OUTPUT	Phase Balance		120°+/-1° (100% unbalanced load)								
	Voltage		208/120Vac or 220/127Vac, 50/60Hz, 3-Phase, 4-Wire Plus Ground								
	Transient Voltage Response		±5% (linear load)								
	Power Factor		1.0								
	Voltage Regulation		±1%								
	Frequency (Line Mode)		' Synchronize with input; when input frequency > ±10% (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz.								
	Frequency (Battery Mode)		50/60Hz±0.01Hz								
	Current Crest Ratio		3:1								
	Harmonic Distortion		<=1% THD(Linear Load)								
			<3% THD(Non-Linear Load)								
	Overload Capacity	AC Mode	60 min @ Load <= 110% - 10 min @ Load <= 125% - 1 min @ Load <= 150% - Shut down @ Load >= 150%								
Bat. Mode		10 min @ Load <= 110% - 1 min @ Load <= 125% - 5 sec @ Load <= 150% - Shut down @ Load >= 150%									
Output Waveform		Pure Sinewave									

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	CAPACITY (KVA / KW)		10KVA / 10KW	15KVA / 15KW	20KVA / 20KW	25KVA / 25KW	30KVA / 30KW	50KVA / 50KW	60KVA / 60KW	80KVA / 80KW	100KVA / 100KW
EFFICIENCY	Normal mode		96% - (from 25% to full load)								
BATTERY	Design life (years @25 C):		5								
	Battery Type		12V								
	Backup Time		Estimated remaining time displayed on the LCD (according to battery options)								
	Float Voltage		2.25V/cell (selectable from 2.20-2.29V/cell) Constant current and constant voltage charge mode								
	Boost Charge Voltage		2.30V/cell (selectable from 2.30-2.40V/cell) Constant current and constant voltage charge mode								
	Rated Battery Voltage	Standard unit	±120Vdc (20pcs 12V9AH); (2x20pcs 12V9AH; 3x20pcs 12V9AH optional)	±120Vdc (2x20pcs 12V9AH); (3x20pcs 12V9AH optional)	±120Vdc (3x20pcs 12V9AH); (3x20pcs 12V9AH optional)						
		Long run unit	±96V\±108V\±120V\±132V\±144Vdc; battery quantity(optional)								
	EOD Voltage		1.75 V/cell (selectable from 1.60 or 1.90V/cell) Auto Inverse EOD voltage x discharge current mode(The end of discharge voltage increases at low discharge currents)								
	TRANSFER TIME	Synchronous transfer		Utility to Battery : 0ms; Utility to bypass: 0ms							
Asynchronous transfer		Asynchronous transfer: 15 ms (50 Hz), 13.3 ms (60 Hz)									
PROTECTION	Protection		Short circuit, overload, over temperature, battery low, fan fault alarm.								
OPTIONAL FEATURES	Economic Mode(ECO Mode)		Supported								
DISPLAY	Status LED & LCD		Line mode, Bypass mode, Battery Status, Overload and Fault								
	Reading On the LCD		Load/Battery/Frequency/Inner Temperature/Input/Output/Bypass/Operating Mode Information - Battery support time remaining								
ALARMS	Audible & Visual		Line Failure, Low Battery, Overload, System Failure								
PHYSICAL	Dimension D×W×H (mm)		250x900x868			250x828x868		442x850x1100		442x850x1200	
	Net Weight(kg)		134/76	190/77	231/79	64	66	150	160	190	200
ENVIRONMENT	Operating Environment		0-40°C								
	Relative Humidity		0-95%(non-condensing)								
	Noise Level		<55dB@ 1Meter		<58dB@ 1Meter	<55dB@ 1Meter		<58dB@ 1Meter	<60dB@ 1Meter	<63dB@ 1Meter	<65dB@ 1Meter
INTERFACE	Smart RS-232/USB		USB, RS232,RS485, Parallel port, Coupler dry contact, Intelligent slot, SNMP card (optional), Relay card (optional),Battery temperature sensor(optional)								
STANDARS	Safety		UL 1778			IEC/EN 62040-1, IEC/EN 60950-1					
	EMC		FCC Part 15:2015, IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, EN55022								

Specifications are subject to change without prior notice.

TECHNICAL SPECIFICATIONS

NOTES

YDC3300A S/H Models:

- S UPS with internal batteries (when available)
- H UPS without internal batteries (only can be connected to external battery cabinet)

Matching Battery Pack		
Model	Weight(Kg)	Dimension D×W×H (mm)
YDC-BT80009-10	243	250x1000x868
YDC-BT80009-20	243	250x1000x868