



UPS (Uninterrupted Power Supply)

YDC3300A 10-100 KVA SERIES

THREE-PHASE ONLINE UPS PF=1.0

KSTAR



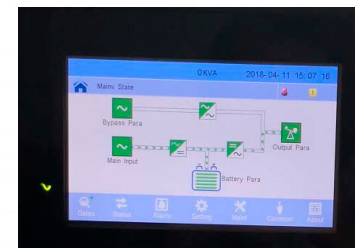
UPS (Uninterrupted Power Supply) **YDC3300A 10-100 KVA SERIES**

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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