

UPS 100KVA SERIES

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Three phase online UPS PF=1.0

COMCAST GROUP



Features

- ☆ Online-Double conversion
- ☆ Wide input frequency rang:45-66hz
- ☆ PFC technology
- ☆ DC start
- ☆ Full digital control (DSP)
- ☆ Communication port: USB/RS485/Parallel/dry contact
- ☆ Output power factory 0.9/1.0
- ☆ Options: SNMP card /relay card
- ☆ Input current harmonic: <3%
- ☆ Intelligent charging management
- ☆ ECO function
- ☆ EPO function
- ☆ Zero transfer time
- ☆ Common battery group
- ☆ Wide input voltage range: 208-478Vac
- ☆ The output can be meet 100% unbalanced load

Technical Specification

Model		YDC3310A S/H	YDC3315A S/H	YDC3320A S/H	
Capacity	Capacity (VA/Watts)	10k / 10k	15k / 15k	20k / 20k	
INPUT					
Input	Rectifier input	Rated AC Input Voltage	208/120Vac or 220/127Vac, 50/60Hz, 3-Phase, 4-Wire Plus Ground		
		Input Voltage Range (Startup/Operating)	-20%, +25% (96-150Vac or 102-159Vac), Full load		
		Input Voltage Range (Operating)	-40%, +25% (72-150Vac or 76-159Vac) , <50% Load		
		Frequency	50 or 60Hz (40-70Hz Range)		
		Power Factor	0.99 (25% linear load)		
		Harmonic distortion (THDi)	≤2% THDi (100% nonlinear load)		
	Bypass input	Rated AC Voltage	208/120Vac or 220/127Vac, 50/60Hz, 3-Phase, 4-Wire Plus Ground		
		Bypass voltage Range	Upper limit: +10,+15,+20 or 25% (default:+20)		
			Lower limit:-10,-20,-30 or -40 (default:-30)		
		Bypass 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			
	Generator Input		Support		
OUTPUT					
Inverter Output	Power factor	1.0			
	Rated AC Voltage 1	208/120Vac or 220/127Vac, 50/60Hz, 3-Phase, 4-Wire Plus Ground			
	Voltage Regulation	±1%			
	Transient Voltage Response	±5% (linear load)			
	Phase Balance	120° ±1° (100% unbalanced load)			
	Frequency	1.Line Mode: synchronize with input; when input frequency >±10% (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz			
	Crest factor	3:1			
	Harmonic distortion (THD)	< 1% (linear load), <3% (non linear load)			
	Overload AC Mode Capacity	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass immediately			

		Bat. Mode	Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, > 150% shut down UPS immediately
Efficiency	Normal mode		Up to 94%

Thecnical Specification

BATTERY					
Battery	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)		
	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			
	End of Discharge	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)			
	Charge Current(A) (charge current can be set according to battery capacity installed)	Standard unit: 1.35A (2.7;4.05A optional) Long run unit: Max. current 20A (limited by input current)	Standard unit: 2.7A (4.05A optional) Long run unit: Max. current 20A (limited by input current)	Standard unit: 4.05A (2.7A optional) Long run unit: Max. current 20A (limited by input current)	
SYSTEM FEATURES					
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)			
Alarms	overload, utility abnormal, UPS fault, battery low, etc.				
Protection	short circuit, overload, over temperature, battery low, fan fault alarm.				
Comunication Interface	USB, RS232,RS485, Parallel port, Coupler dry contact, Intelligent slot, SNMP card (optional), Relay card (optional),Battery temperature sensor(optional)				
ENVIRONMENTAL					
Environment	Operating Temperature	0°C~40°C			
	Storage Temperature	-25°C~55°C(no battery)			
	Humidity	0~95% non condensing			
	Acoustical Noise	<55dB from 1M distance	<58dB from 1M distance		
	Altitude	< 1500m.When>1500m,lower the rated power for use			

Thecnical Specification

PHYSICAL			
Dimension D×W×H (mm)	250x900x868		
Net weight (Kg)	134/76	190/77	231/79
STANDARDS			
Safety certifications	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, IEC610004-8		
Matching Battery Pack			
Model	Weight(Kg)	Dimension D×W×H (mm)	
YDC-BT80009-10	243	250x1000x868	
YDC-BT80009-20	243	250x1000x868	

For More Information

Please visit our website www.comcast-sa.com or contact your local sales representative.

Comcast México

Overseas Sales Subsidiary
Calz. Lázaro Cárdena #1309
Col. Industrial CP.44940
Guadalajara, Jalisco
Tel. +52 33 38607059
Email: gerente.mx@comcast-sa.com

Comcast Guatemala

Overseas Sales Subsidiary
20 calle 23-70 Zona 10
Guatemala
Tel. +506 4004 1400
Email: gerente.gua@comcast-sa.com

Comcast Nicaragua

Overseas Sales Subsidiary
3ra. Entrada las Colina, Embajada
de Cuba 1C. Este, Casa#34
Managua, Nicaragua
Tel. + 1809 5711033
Email: admin.nic@comcast-sa.com

Comcast Dominican Republic

Overseas Sales Subsidiary
Winston Churchill no.5, suite 3F, Distrito Nacional
Santo Domingo, Dominican Republic
Tel. + 1 809 571 1033