

bcn®

www.bcn-ups.com



TELECOM-
MUNICOMATIONS
DEVICES



LOCAL AREA
NETWORKS
(LAN)



E-BUSINESS
(Servers Farms,
ISP/ASP/POP)



SERVERS



CASH
REGISTERS



EMERGENCY
SECURITY

DATA POWER

40KVA - 200KVA

Three Phase :Three phase

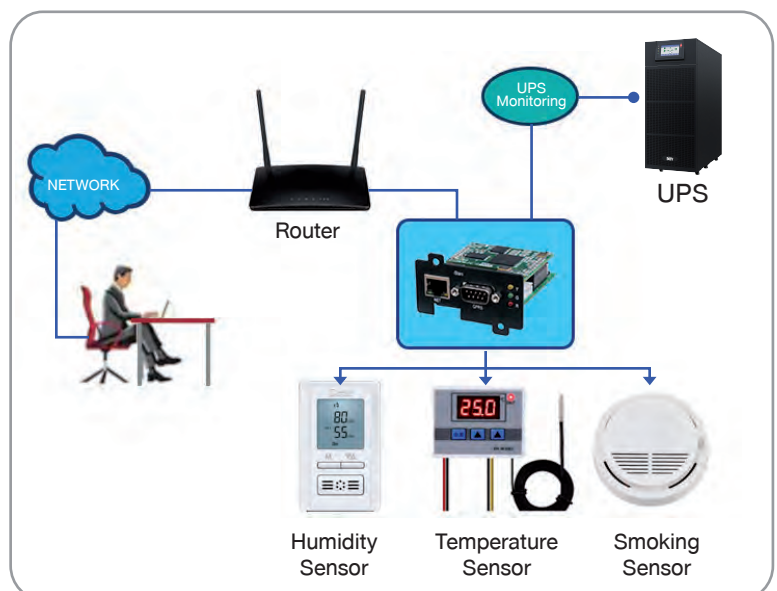
Highlights

- On-line double conversion with DSP control design
- 3-Level inverter, IGBT PFC, high efficiency is up to 98%
- High input/ Output power factor = 1 (input 0.999)
- Wide input voltage range(138~485Vac)
- Support connecting to unbalance load
- Support maximum 6 units in parallel
- Easy Maintenance (Modular Design)
- Intelligent fan speed regulation
- No derating for $PF \geq 0.5$ inductive load and capacitive load
- Battery number 30-50pcs settable
- Common Battery Bank
- LBS function, compliance class A requirement
- Loop parallel signal control system, avoid any single failure
- Flexible Dual & Separate input source configuration
- Multiple communication interface : RS232, RS485, Parallel, LBS, Dry contact port, Relay card(optional), SNMP card(optional), Battery temperature sensor(optional)
- High power density design, requirement smaller footprint space
- Structured design easy for maintenance



TIS.1291 Part 1-2553
TIS.1291 Part 2-2553
TIS.1291 Part 3-2555

Intelligent SNMP Monitoring



Your choice of power protection

*PF0.9/1 (option) Depend on Customer

DATA POWER

40KVA - 200KVA

Three Phase :Three phase



Strong load capacity

- Output power factor is 1.0, UPS can supply power to 100% unbalance load.
- High adaptability for load, it can connect full inductive load or capacitive load.

Compatible with generator

- Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator.

LBS function

- LBSfunction can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system.

Intelligent management

- Support RS485, RS232, SNMP, dry contact card.

Software Monitoring



High reliability design

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage ≥ 305 Vac.

Power saving

- High input power factor, it can be up to 0.99.
- Three level inverter topology, the efficiency can be up to 98%.

Parallel redundancy function

- Support parallel expanded operation: maximum is 6 units.
- Support sharing batteries for the UPS in parallel.

Flexible battery configuration

- Batteries number of each group can be selected from 30 pieces to 50 pieces.
- Large charging current can meet the requirement of long time backup.



Structure (Power Module 40KVA-200KVA 3:3 phase)

Model	Built-in module capacity	Module number
YDC3340H	40kVA	1
YDC3350H	50kVA	1
YDC3360H	60kVA	1
YDC3380H	40kVA	2
YDC33100H	50kVA	2
YDC33120H	60kVA	2
YDC33150H	50kVA	3
YDC33160H	53kVA	3
YDC33180H	60kVA	3
YDC33200H	67kVA	3

DATA POWER

40KVA - 200KVA

Three Phase :Three phase



Display Panel (Optional)



Touch screen LCD 7"



TFT Colorful LCD 4.3"

DATA POWER

40KVA - 200KVA Three Phase :Three phase



Model	Dimension (W x D x H)(mm)	Weight (kg)
YDC3340H	250x828x868	80
YDC3350H		82
YDC3360H		83
YDC3380H	442x850x1200	144
YDC33100H		147
YDC33120H		152
YDC33150H		190
YDC33160H		200
YDC33180H		220
YDC33200H		280

Your choice of power protection

DATA POWER

40KVA - 200K VA

Three Phase :Three phase

TELECOM-
MUNICATIONS
DEVICESLOCAL AREA
NETWORKS
(LAN)E-BUSINESS
(Servers Farms,
ISP/ASP/POP)

SERVERS

CASH
REGISTERSEMERGENCY
SECURITY

Specifications:

Model	YDC3340H	YDC3350H	YDC3360H	YDC3380H	YDC33100H	YDC33120H	YDC33150H	YDC33160H	YDC33180H	YDC33200H
Capacity(kVA/kW)	40/36	50/45	60/54	80/72	100/90	120/108	150/135	160/144	180/162	200/180
Capacity(kVA/kW)(option)	40/40	50/50	60/60	80/80	100/100	120/120	150/150	160/160	180/180	200/200

INPUT

Nominal voltage	380/400/415Vac, (3Ph+N+PE)
Operating voltage range	138~485Vac for 40%load; 305~485Vac for full-load
Operating frequency range	40~70Hz
Power factor	≥0.99
Harmonic distortion (THDi)	≤3% (100% non-Linear load)
Bypass voltage range	220Vac Max.voltage: +25%(optional +10%, +15%, +20%) 230Vac Max.voltage: +20%(optional +10%, +15%) 240Vac Max.voltage: +15%(optional +10%) Min. voltage: -45% (optional -20%, -30%) Frequency synchronize tracing range: ± 10%
Generator input	Support

OUTPUT

Output voltage	380/400/415Vac (3Ph+N+PE)
Voltage regulation	± 1%
Power factor	0.9 or 1.0 (optional)
Output 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 (THDV)	≤2% with linear load; ≤4% with non linear load;
Efficiency	98%

BATTERY

Battery voltage	Optional Voltage: ±180V/±192V/±204V/±216V/±228V/±240V/±252V/±264V/±276V/±288V/±300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs optional); 360Vdc-600Vdc (30~50 pcs, 36 pos default, 36 to 50 pcs output power factor 1.0; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8;)		
Charge Current(A) (charge current can be set according to battery capacity installed)	Max.current 20A	Max.current 40A	Max.current 60A

SYSTEM FEATURES

Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms
Overload	INV Mode	110% overload for 60 min; 125% overload for 10 min; 150% overload for 1 min
	Bypass Mode	135% overload for long time; >1000% overload for 100 ms
Backfeed protection		Support
Alarm		Overload, utility abnormal, UPS fault, battery low, etc.
Protection		Short circuit, overload, over temperature, battery low, fan fault alarm.
Remote LCD		Support
Communication		USB, RS485, Parallel port, Coupler dry contact, Intelligent slot, SNMP card (optional), Relay card (optional)

ENVIRONMENTAL

Operating temperature	0°C ~ 40°C		
Storage temperature	25°C ~ 55°C(no battery)		
Humidity range	0~95% (non condensing)		
Altitude	< 1500m.When>1500m		
Noise level	<55db	<58db	<60db

PHYSICAL

Dimension D x W x H (mm)	828x250x868			850x450x1200						
Net weight (kg)	80	82	83	144	147	152	190	200	220	280

STANDARDS

Safety	IEC/EN62040-1, IEC/EN60950-1		
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC81000-4-5, IEC61000-4-6, IEC61000-4-8		

TIS.1291 Part 1-2553
TIS.1291 Part 2-2553
TIS.1291 Part 3-2555

- All specification subject to change without notice.
- Custom-made specification are acceptable.
- Manufactured by factory with
ISO 9001, ISO 14001, OHSAS 18001, CE, STANDARD

Your choice of power protection