



## Baryon Series 10kVA ~ 40kVA



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# Baryon Series

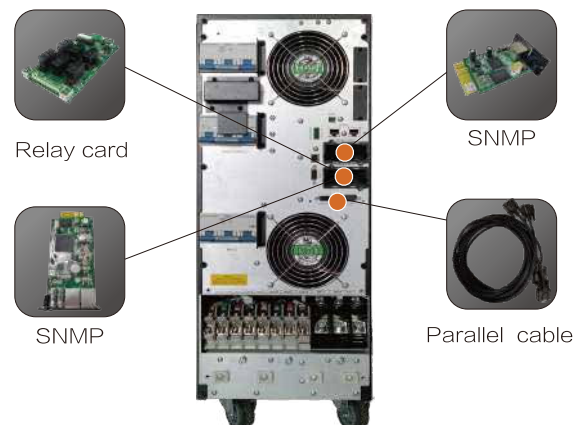
3:3 phase PF 0.9 (PF 1.0 optional)

Power range: 10kVA~40kVA



## Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery  
10~30kVA: 16/18/20pcs (30~50pcs is optional)  
40kVA: 30~50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Versatile LCD human-computer interface
- Generator compatible
- ECO mode operation for energy saving
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Relay card (Optional), Battery temperature sensor (Optional)



# Baryon Series

MODEL	Baryon-10KVA	Baryon-20KVA	Baryon-30KVA
Capacity	10kVA / 9kW	20kVA / 18kW	30kVA / 27kW
	10kVA / 10kW	20kVA / 20kW	30kVA / 30kW

## INPUT

Nominal voltage	380/400/415Vac (3Ph+N+PE)
Operating voltage range	305~478Vac(Full load); 208~478Vac(50% load)
Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)
Power factor	≥0.99
Bypass voltage range	Max.voltage:220V:+25% (Optional+10%,+15%,+20%) 230V:+20% (Optional+10%,+15%) 240V:+15% (Optional+10%) Min.voltage:-45% (Optional-20%,-30%)
Frequency protection range	50/60Hz ± 10%
ECO range	Same as bypass
Harmonic distortion (THDi)	≤3% Linear load

## OUTPUT

Output voltage	380/400/415Vac (3Ph+N+PE)
Voltage regulation	± 1%
Power factor	0.9
Output	Line Mode ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional)
Frequency	Bat. Mode 50/60(± 0.1%)Hz
Transfer time	AC mode to Bat.Mode 0ms
	Inverter to Bypass 0ms
Output waveform	Pure Sinewave
Crest factor	3:1
Harmonic distortion (THDv)	≤2% Linear load
	≤5% Non linear load
Overload	AC mode ≤ 110%,last 60min; ≤ 125%,last 10min; ≤ 150%,last 1min; > 150% turn to bypass Immediately
	Bat.mode ≤ 110%,last 10min; ≤ 125%,last 1min; ≤ 150%,last 5s; > 150% turn to bypass Immediately

## EFFICIENCY

Efficiency	up to 93.5%	up to 94.5%
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## BATTERY

Battery voltage	Standard unit	± 120Vdc (20pcs 12V9Ah); (20pcs 12V7Ah, 2x20pcs 12V7/9Ah optional)	± 120Vdc (2x20pcs 12V9Ah) (2x20pcs 12V7Ah optional)	± 120Vdc (3x20pcs 12V9Ah) (3x20pcs 12V7Ah optional)
	Long run unit	10~30kVA: ± 96/108/120Vdc; battery quantity(16~20pcs, 16pcs default, Standard unit and 20pcs no power derating; 18pcs output power factor 0.8/0.9; 16pcs output power factor 0.7/0.8;) 10~30kVA (Optional): ± 180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)		
Charge Current (charge current can be set according to battery capacity installed)	Standard unit	1.35A (2.7Aoptional)	2.7A	4.05A
	Long run unit	14A Max.	18A Max.	20A Max.

## PHYSICAL

Dimension	Standard unit	250 x 900 x 868		
W × D × H (mm)	Long run unit	250 x 580 x 655		
Net weight (kg)		129/35	187/40	236/43

## ENVIRONMENTAL

Operating temperature	0 ~ 40°C		
Storage temperature	-25 ~ 55°C (No battery)		
Humidity range	0 ~ 95% (Non condensing)		
Altitude	<1500m,derating required when>1500m		
Noise level	<55dB	<58dB	<61dB

## STANDARDS

Safety	IEC/EN62040-1,IEC/EN62477-1		
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8		

Specifications are subject to change without prior notice.