BETA 200 BETA 250
BETA 300 BETA 400
BETA 500 BETA 600
BETA 800 BETA 1000

TECHNICAL SPECIFICATION

Elsist
UNINTERRUPTIBLE POWER SUPPLY

MODEL	BETA200	BETA250	BETA300	BETA400	BETA500	BETA600
Technology	On-line Double Conversion					
Power (kVA/kW)	200/200	250/250	300/300	400/400	500/500	600/600

INPUT

Phase	3 Phase + Neutral + Ground
Rated Voltage	380/400/415Vac
Voltage Range	138~485Vac
Frequency Range	40Hz - 70Hz
Power Factor	≥0.99
Current THDi	≤ 3% (100% linear load)
Bypass Voltage Range	Max Voltage.: 220Vac:+25% (optional +10%,+15%,+20%) 230Vac:+20% (optional +10%,+15%) 240Vac:+15% (optional +10%) Min. Voltage.: -45% (optional -10%, -15%, -20%, -30%) Frequency protection range: ±10%
Generator Input	Support

OUTPUT

Phase		3 Phase + Neutral + Ground
Rated Voltage		380/400/415Vac
Power Factor		1.0
Voltage Regulation		±1%
Frequency	Utility Mode	Synchronized with input (±1%, ±2%, ±4%, ±5%, optional)
	Battery Mode	(50/60 ±0.1) Hz
Crest Factor		3:1
THD		≤2% with linear load
		≤4% with not linear load
EFFICIENCY (in normal mode)		>96%

BATTERY

Voltage	±180V/±192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional) 360Vdc~600Vdc (30~50 pcs) 36~50pz Output PF 1; 32~34pz Output PF 0.9; 30pz Output PF0.8)				
Charge Current (A)	Charge current is automatically set in according to the capacity and the quantity of the batteries				
	Max 80A	Max 100A	Max 140A	Max 180A	Max 200A

PROTECTION

Overload	Inverter overload capability: ◆ 105%<load≤110%: transfer to bypass mode after 60 min ◆ 110%<load≤125%: transfer to bypass mode after 10 min ◆ 125%<load≤150%: transfer to bypass mode after 1 min ◆ ≥150% 1.2s shut down inverter, transfer to bypass immediately Bypass overload capability: ◆ Temperature ≤ 30°C, load ≤ 135%: run for a long time ◆ Temperature ≤ 40°C, load ≤ 125%: run for a long time ◆ 1000% load: run for 100 ms
Short Circuit	Hold Whole System

Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately
Battery Low	Alarm and Switch off
Self-diagnostics	Upon Power On and Software Control
EPO	Shut down UPS immediately
Battery	Advanced Battery Management

SYSTEM FEATURES

Transfer time	Utility to Battery: 0ms Utility to bypass: 0ms
Communication interface	RS232, RS485, Parallel, LBS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)
Backfeed protection	Support

ENVIRONMENT

Operating Temperature	0°C ~ 40°C		
Storage Temperature	-25°C ~ 55°C		
Humidity	0 ~ 95% non condensing		
Altitude	<1000m		
Noise level	<65dB	<68dB	<70dB

DISPLAY

Audible & Visual	Line Failure, Battery Low, Overload, System Fault
Status LED	UPS Fault, Alarm and normal
Reading On the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, parameter set, history record..

PHYSICAL

Dimension (WxDxH) mm	600x850x2000				1200x850x2000	
Weight (Kg)	360	400	480	530	800	890

STANDARDS

Safety	IEC/EN 62040-1, IEC/EN 62040-3, IEC/EN 62477-1
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)

MODEL	BETA800	BETA1000
Technology	On-line Double Conversion	
Power (kVA/kW)	800/800	1000/1000

INPUT

Phase	3 Phase + Neutral + Ground	
Rated Voltage	380/400/415Vac	
Voltage Range	138~485Vac	
Frequency Range	40Hz - 70Hz	
Power Factor	≥0.99	
Current THDi	≤ 3% (100% linear load)	
Bypass Voltage Range	Max Voltage.: 220Vac:+25% (optional +10%,+15%,+20%) 230Vac:+20% (optional +10%,+15%) 240Vac:+15% (optional +10%) Min. Voltage.: -45% (optional -10%, -15%, -20%, -30%) Frequency protection range: ±10%	
Generator Input	Support	

OUTPUT

Phase	3 Phase + Neutral + Ground	
Rated Voltage	380/400/415Vac	
Power Factor	1.0	
Voltage Regulation	±1%	
Frequency – Utility Mode	Synchronized with input (±1%, ±2%, ±4%, ±5%, optional)	
Frequency – Battery Mode	(50/60 ±0.1) Hz	
Crest Factor	3:1	
THD	≤2% with linear load	
	≤4% with not linear load	
EFFICIENCY (in normal mode)	>96%	

BATTERY

Voltage	±180V/±192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional) 360Vdc~600Vdc (30~50 pcs) 36~50pz Output PF 1; 32~34pz Output PF 0.9; 30pz Output PF0.8)	
Charge Current (A)	Charge current is automatically set in according to the capacity and the quantity of the batteries	
	Max 280A	Max 340A

PROTECTION

Overload	Inverter overload capability: ◆ 105%<load≤110%: transfer to bypass mode after 60 min ◆ 110%<load≤125%: transfer to bypass mode after 10 min ◆ 125%<load≤150%: transfer to bypass mode after 1 min ◆ ≥150% 1.2s shut down inverter, transfer to bypass immediately Bypass overload capability: ◆ Temperature ≤ 30°C, load ≤ 135%: run for a long time ◆ Temperature ≤ 40°C, load ≤ 125%: run for a long time ◆ 1000% load: run for 100 ms
Short Circuit	Hold Whole System

Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately
Battery Low	Alarm and Switch off
Self-diagnostics	Upon Power On and Software Control
EPO	Shut down UPS immediately
Battery	Advanced Battery Management

SYSTEM FEATURES

Transfer time	Utility to Battery: 0ms Utility to bypass: 0ms
Communication interface	RS232, RS485, Parallel, LBS, Relay card (Optional), SNMP card (Optional)
Backfeed protection	Support

ENVIRONMENT

Operating Temperature	0°C ~ 40°C	
Storage Temperature	-25°C ~ 55°C	
Humidity	0 ~ 95% non condensing	
Altitude	<1500m	
Noise level	<73dB	<75dB

DISPLAY

Audible & Visual	Line Failure, Battery Low, Overload, System Fault
Status LED	UPS Fault, Alarm and normal
Reading On the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, parameter set, history record ..

PHYSICAL

Dimension (WxDxH) mm	2000x850x2000	
Weight (Kg)	1450	1600

STANDARDS

Safety	IEC/EN 62040-1, IEC/EN 62040-3, IEC/EN 62477-1
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)

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