

ExTell Zeta Sub-Rack Modular Series, 20KVA Power Module

Reference Standard- Safety: IEC/EN 62040-1; EMC: IEC/EN 62040-2; Performance: IEC/EN 62040-3



Modular Design

- All units adopt modular design, these include power module, bypass module, monitoring module, which means can be easily integrated in MDC or customized cabinet.
- Power module, Bypass module, Monitoring module, ECU control module , all these modules are supported hot-swappable

High Reliability

- Width input voltage range, line voltage range is 138-485V, UPS would be derating when input voltage is below 305V.
- UPS adopts multiple digital bus and redundancy parallel control system, make sure the whole system keep online if any single circuit fail.
- The UPS will keep on single or parallel working, if any module failed.

Green and Power Saving

- High input power factor, it is up to 0.99.
- Three level topology design, efficiency is up to 96%.
- THDi<3% (100% nonlinear load)
- The UPS will be work on sleeping mode when the load is very less.

Parallel Redundancy Function

- Support parallel expanded operation: maximum is 8 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.



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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.

Intelligent Management

- With 7 inches colorful touch LCD screen. Support recording and exporting historic logs and fault logs.
- Support RS485, SNMP, Dry contact card, support RJ 45 interface and CAN interface.
- Support upgrade of CAN of power module inside of cabinet.
- Support upper-bottom cable access method 60K/120K/180K bottom entry, 300K top entry optional.
- EPO & REPO function.



E040ZSR-MT33-20



E080ZSR-MT33-20



E120ZSR-MT33-20



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Technical Specifications

Model		E040ZSR-MT33-20	E080ZSR-MT33-20	E120ZSR-MT33-20
Capacity (W)	UPS Cabinet	40kVA Chassis	80kVA Chassis	120kVA Chassis
	Module	E020ZPM33-BK		
	Max. Number	1 + 1	3 + 1	5 + 1

Input

Nominal Voltage	380/400/415Vac, (3Ph+N+PE)
Operating Voltage Range	152-478Vac
Operating Frequency Range	40Hz-70Hz
Power Factor	≥0.99
Harmonic Distortion (THDi)	≤3% (100% linear load)
Bypass Voltage Range	Upper limit: 380V+25% (+10%, +15%, +20%, settable); 400V+20% (+10%, +15%, settable); 415V+15% (+10%, settable); Lower limit: -45% (-10%, -20%, -30%, settable)
Bypass Frequency Range	50/60Hz ±10%
Generator Input	Support

Output

Rated Voltage	380/400/415Vac, (3Ph+N+PE)	
Power Factor	1.0	
Voltage Regulation	±1%	
Output Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(optional)
	Bat. Mode	(50/60±0.1%)Hz
Crest Factor	3:1	
Harmonic Distortion (THDv)	≤2% with linear load; ≤5% with nonlinear load	

Efficiency

Efficiency	UP to 96%
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Battery

Battery voltage	±240VDC(±180VDC ---±300VDC)
Power module Charge Current	1 - 5A (Max.)



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System Features

Transfer time	Utility to Battery : 0ms; Utility to bypass: 0ms			
Overload	Line Mode	110% for 60 mins; 125% for 10 mins; 150% for 1 min; >150%, transfer to bypass		
	Bypass Mode	135% overload for long term; >1000% overload for 100 ms		
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately			
Low battery voltage	Alarm and Switch off			
Self-diagnostics	Upon Power On and Software Control			
Backfeed protection	Support			
EPO(optional)	Shut down UPS immediately			
Battery	Advanced Battery Management			
Noise suppression	Complies with EN62040-3			
Audible & Visual alarms	Line Failure, Battery Low, Overload, System Fault			
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault			
Reading on the LCD display	Input, Output, Battery, Command, Setting, Maintenance			
Communication interface	CAN, RS485, Parallel, Dry contact port, Relay card, SNMP card, Battery temperature sensor(optional)			

Environmental

Operating temperature	0°C~40°C		
Storage temperature	-25°C~55°C		
Humidity range	0~95% (non condensing)		
Altitude	< 1500m		
Noise level(from 1M distance)	<54dB	<58dB	<65dB

Physical

Dimension WxDxH (mm)	UPS Cabinet	485 x 775 x 542	485 x 775 x 764	485 x 914 x 942
	Power Module	440 x 574 x 86 (2U)		
Net weight (kg)	UPS Cabinet	48	61	74
	Power Module	17kg		

