

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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Technical Specifications

Model		E040ZSR-MT33-10	E080ZSR-MT33-10	E120ZSR-MT33-10
Capacity (W)	UPS Cabinet	40kVA Chassis	80kVA Chassis	120kVA Chassis
	Module	E020ZPM33-BK		
	Max. Number	1 + 1	3 + 1	5 + 1

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		

