

ExTell Zeta Sub-Rack Modular Series, 10KVA 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.



E020ZSR-MT33-10



E040ZSR-MT33-10



E060ZSR-MT33-10



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Technical Specifications

Model		E020ZSR-MT33-10	E040ZSR-MT33-10	E060ZSR-MT33-10
Capacity (W)	UPS Cabinet	20kVA Chassis	40kVA Chassis	60kVA Chassis
	Module	E010ZPM33-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 Contro
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 W×D×H (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	43	56	70
	Power Module	15kg		

