

**ESIS POWER ENERGY**

# ONLINE UPS

RELIABLE POWER BACKUP  
FOR CRITICAL INFRASTRUCTURE



## Voltify III RT 6KVA/10KVA



True Double  
Conversion



DSP  
Technology



Parallel  
Operation



ECO Mode &  
High Efficiency



LCD Display &  
EPO Function

Tower Online UPS



Dagon III 6K, 10K    Dagon III 6KL, 10KL

Rack - Mount Online UPS



## High Reliability

### Full-Digital Control Technology

- Advanced DSP control technology enables precise and rapid data processing, featuring fast self-diagnosis and fault-handling capabilities. It has comprehensive self-protection functions, ensuring higher reliability.
- Higher circuit integration and optimized design enhance anti-interference capabilities, making performance more stable.

### Environmentally Green and Safe

- All components comply with international environmental ROHS standards, making them eco-friendly and non-harmful.
- Reliable electromagnetic compatibility, certified by authoritative institutions.

## Outstanding Energy Efficiency

### Green Power Bidirectional Protection

- Input power factor >0.99, input current harmonics <4%, improving energy efficiency, effectively preventing additional energy loss, eliminating grid pollution, and reducing energy costs.
- Industry-leading overall efficiency, with full-load efficiency reaching up to 95%, saving energy consumption and reducing customer operating costs.
- Comparison of a 10kW device running 24 hours non-stop with the industry average efficiency of 92%:
  - Daily energy savings:  $10,000W * (95\% - 92\%) * 24h = 7.2 (kWh)$
  - Daily cost savings:  $0.8 * 7.2 = 5.76 (CNY)$  (calculated at 0.8 CNY per kWh)
  - Annual energy savings:  $7.2 * 365 = 2,628 (kWh)$
  - Annual cost savings:  $0.8 * 2,628 = 2,102 (CNY)$
- Output power factor of up to 1.0, providing stronger load capacity at the same power level, resulting in better cost-performance and lower system investment costs.
- High power density with an optimized structural design; rack-mounted height as low as 2U, depth of 509mm, making it more compact and reducing space costs.
- Self-aging mode for testing, verification, and maintenance without additional load, saving a significant amount of energy and testing costs.

## Intelligent and User-Friendly

- Intelligent fan speed control** extends fan lifespan and improves energy efficiency.
- LCD/LED dual-display** with an optional color screen, providing comprehensive parameter settings for easier management.
- Standard communication features:** RS232/EPO, supporting optional SNMP, dry contacts, and RS485 cards.
- Smart charging function** allows setting of charging current, with long-runtime models supporting up to 8A, reducing charging time. 16-20 battery configuration for flexibility, with hot-swappable external batteries, ensuring uninterrupted power supply.

### Strong Application Adaptability

- Ultra-wide voltage input range allows adaptation to different operating voltage conditions, easily handling harsh power environments and avoiding frequent switching to battery power.
- Supports connection to generators, adapting to generator AC input while effectively isolating harmful power fluctuations, preventing grid pollution, and providing a clean, safe, and stable power supply for loads.
- Outputs 208/220/230/240Vac with strong compatibility and greater flexibility to meet power requirements in multiple countries.
- 50/60Hz frequency adaptive, automatically detects grid frequency.
- Utility power priority to avoid frequent battery switching, extending battery lifespan.

### Comprehensive Alarm Protection

- Self-diagnostics and hidden fault detection, ensuring system safety.

## SPECIFICATION

MODEL ZTY	Voltify III 1-1 6K(E)	Voltify III 1-1 10K(E)
PHASE	1 phase in / 1 phase out	
CAPACITY	6000 VA / 6000 W	10000 VA / 10000 W
<b>INPUT</b>		
Nominal Voltage	208/220/230/240 VAC	
Voltage Range	110~300VAC $\pm$ 3 % at 60% load 176~300VAC $\pm$ 3 % at 100% load	
Frequency Range	46~54 Hz or 56~64 Hz 40 ~ 70 Hz (In generator mode)	
Power Factor	$\geq$ 0.99 @ full load	
THDi	< 4% @ 100% R load	
<b>OUTPUT</b>		
Output Voltage	208*/220/230/240 VAC	
AC Voltage Regulation (Batt. Mode)	$\pm$ 1%	
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)	50 Hz $\pm$ 0.1 Hz or 60 Hz $\pm$ 0.1 Hz	
Current Crest Ratio	3:1 (max.)	
Harmonic Distortion	$\leq$ 1 % THD (Linear Load) ; $\leq$ 4 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	Zero
	Inverter to Bypass	Zero
Waveform (Batt. Mode)	Pure Sinewave	
Overload	AC Mode	100-110% for 60 min, 110-125% for 10 min, 125%~150% 1min, >150% immediately switch to bypass
	Battery Mode	100-110% for 3 min, 110-130% for 30s, >130% immediately
<b>EFFICIENCY</b>		
AC Mode	95%	
Battery Mode	92%	
<b>PHYSICAL</b>		
Battery Type	Lead acid battery	
Numbers	16-20**	
Charging Current	2A (Default) ,1A/2A/4A/6A/8A adjustable	
Charging Voltage	(13.65VDC x battery number) $\pm$ 1%	
<b>PHYSICAL</b>		
Dimension, DxWxH (mm)	509 x 438 x 88 (2U)	
Net Weight (kgs)	11	12.1
<b>ENVIRONMENT</b>		
Operating Humidity	20-95 % RH @ 0- 40°C (Non-condensing)	
Noise Level	Less than 55dB @ 1Meter	Less than 58dB @ 1Meter
<b>MANAGEMENT</b>		
Smart RS-232/USB	Supports Windows® Family, Linux and MAC	
Optional SNMP	Power management from SNMP manager and web browser	

\*Derate capacity to 80% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

\*\*When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9

\*\*\*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m..

ESIS Power Energy reserves the right to modify these details at any time without prior notification.

## SPECIFICATION

MODEL ZTY	Voltify III 6K(L)		VoltifyIII 10K(L)	
PHASE	1 phase in / 1 phase out			
CAPACITY	6000 VA / 6000 W		10000 VA / 10000 W	
<b>INPUT</b>				
Nominal Voltage	208/220/230/240 VAC			
Voltage Range	110~300VAC $\pm 3\%$ at 60% load ; 176~300VAC $\pm 3\%$ at 100% load			
Frequency Range	46~54 Hz or 56~64 Hz 40 ~ 70 Hz (In generator mode)			
Power Factor	$\geq 0.99$ @ full load			
THDi	< 4% @ 100% R load			
<b>OUTPUT</b>				
Output Voltage	208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	$\pm 1\%$			
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)	50 Hz $\pm 0.1$ Hz or 60 Hz $\pm 0.1$ Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	$\leq 1\%$ THD (Linear Load) ; $\leq 4\%$ THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	Zero		
Waveform (Batt. Mode)	Pure Sinewave			
Overload	AC Mode	100-110% for 60 min, 110-125% for 10 min, 125%~150% 1min, >150% immediately switch to bypass		
	Battery Mode	100%~110%: 3min, 110%~130%: 30S, >130% : immediately		
<b>EFFICIENCY</b>				
AC Mode	95%			
Battery Mode	92%			
<b>BATTERY</b>				
Standard Model	Battery Type	12 V / 7 Ah		12 V / 9 Ah
	Numbers	16		20
	Typical Recharge Time	7 hours recover to 90% capacity		9 hours recover to 90% capacity
	Charging Current (max.)	1 A $\pm 10\%$ (Default)		
	Charging Voltage	218.4 VDC $\pm 1\%$		240 VDC $\pm 1\%$
Long-run Model	Battery Type	Sealed, lead-acid battery		
	Numbers	16-20**		
	Charging Current (max.)	2A $\pm 10\%$ (Default) 1A/2A/4A/6A/8A adjustable		
	Charging Voltage	(13.65VDC x battery number) $\pm 1\%$		
<b>INDICATORS</b>				
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
<b>PHYSICAL</b>				
Standard Model	Dimension, DxWxH (mm)	369 x 190 x 688		442 x 190 x 688
	Net Weight (kgs)	55		74
Long-run Model	Dimension, DxWxH (mm)	369 x 190 x 318		
	Net Weight (kgs)	14		15
<b>ENVIRONMENT</b>				
Operating Humidity	<95 % RH @ 0- 40°C (Non-condensing)			
Noise Level	Less than 55dB @1Meter		Less than 58dB @1Meter	
<b>MANAGEMENT</b>				
Smart RS-232/USB	Supports Windows® Family, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

\*Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

\*\*When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9

\*\*\*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m..

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