

ESIS POWER ENERGY

ONLINE UPS

RELIABLE POWER BACKUP
FOR CRITICAL INFRASTRUCTURE



VoltifyOne 1KVA-10KVA



True Double
Conversion



DSP
Technology



Parallel
Operation



ECO Mode &
High Efficiency



LCD Display &
EPO Function

Voltify One RT 6KVA, 10KVA



Voltify One 6KVA, 10KVA Rack/Tower Online UPS Selection Guide

MODEL		Voltify One RT 6K(E)	Voltify One RT 10K(E)
PHASE		1 phase in / 1 phase out	
CAPACITY*		6000 VA / 6000 W	10000 VA / 10000 W
INPUT			
Nominal Voltage		208/220/230/240 VAC	
Voltage Range		110~300VAC ± 3 % at 50% load 176~300VAC ± 3 % at 100% load	
Frequency Range		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz	
Power Factor		≥ 0.99 @ full load	
THDi		< 4% @100% Load, < 6% @50% Load	
OUTPUT			
Output Voltage		208*/220/230/240 VAC	208*/220/230/240 VAC
AC Voltage Regulation		± 1%	
Frequency Range (Synchronized Range)		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1 (max.)	
Harmonic Distortion		≤ 1% THD (Linear Load), ≤ 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%: 10min - 110%~130%: 1min - >130%: 1sec	
	Battery Mode	100%~110%: 30sec - 110%~130%: 10sec - >130%: 1sec	
EFFICIENCY			
AC Mode		94%	94%
ECO Mode		98.5%	98.5%
Battery Mode		92%	92%
BATTERY			
Standard Model	Battery Type	12 V / 7 AH	12 V / 9 AH
	Numbers	16	16
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1.0 A	
	Charging Voltage	218.4 VDC ± 1%	218.4 VDC ± 1%
Long-run Model	Battery Type	Depending on applications	
	Numbers	16-20**	
	Charging Current (max.)	4.0 A	
	Charging Voltage	(13.65VDC x battery number) ± 1%	
INDICATORS			
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every second	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension, D x W x H (mm)	UPS Unit: 610x438x88 [2U] Battery Pack: 715x438x88 [2U]	UPS Unit: 610x438x88 [2U] Battery Pack: 715x438x88 [2U]
	Net Weight (kgs)	UPS Unit: 17 / Battery Pack: 48	UPS Unit: 20 / Battery Pack: 53
Long-run Model	Dimension, D x W x H (mm)	610 x 438 x 88 [2U]	610 x 438 x 88 [2U]
	Net Weight (kgs)	17	20
ENVIRONMENT			
Operating Humidity		20-90 % RH @ 0- 40°C (non-condensing)	
Noise Level		Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
MANAGEMENT			
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.

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

Voltify One 6KVA, 10KVA



Voltify One Online UPS Selection Guide

MODEL		Voltify One 6K(E)	Voltify One 10K(E)
PHASE		1 phase in / 1 phase out	
CAPACITY		6000 VA / 6000 W	10000 VA / 10000 W
INPUT			
Nominal Voltage		208/220/230/240 VAC	
Voltage Range		110~300VAC \pm 3 % at 50% load ; 176~300VAC \pm 3 % at 100% load	
Frequency Range		46~54 Hz or 56~64 Hz	
Phase		Single phase with ground	
Power Factor		\geq 0.99 @ full load	
THDi		< 4% @100% Load ; < 6% @50% Load	
OUTPUT			
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% 10min ; 110%~130%: 1min ; >130% : 1sec	
	Battery Mode	100%~110%: 30sec ; 110%~130%: 10sec ; >130% : 1sec	
EFFICIENCY			
AC Mode		94%	
Battery Mode		91%	
BATTERY			
Standard Model	Battery Type	12 V / 7 Ah	12 V / 9 Ah
	Numbers	16	
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1.0 A	
Long-run Model	Charging Voltage	218.4 VDC \pm 1%	
	Battery Type	Depending on applications	
	Numbers	16-20**	
	Charging Current (max.)	4.0 A	
	Charging Voltage	(13.65VDC x battery number) \pm 1%	
INDICATORS			
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every 2 seconds	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension, Dx WxH (mm)	369 x 190 x 688	442 x 190 x 688
	Net Weight (kgs)	54	66
Long-run Model	Dimension, Dx WxH (mm)	369 x 190 x 318	442 x 190 x 318
	Net Weight (kgs)	13	16
ENVIRONMENT			
Operating Humidity		20-95 % RH @ 0- 40°C (Non-condensing)	
Noise Level		Less than 55dB @1Meter	Less than 58dB @1Meter
MANAGEMENT			
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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Voltify One 1KVA, 1.5KVA, 2KVA, 3KVA



Voltify One 1KVA, 1.5KVA, 2KVA, 3KVA Online UPS Selection Guide

MODEL	Voltify One 1K		Voltify One 1.5K		Voltify One 2K		Voltify One 3K	
PHASE	Single phase with ground							
CAPACITY*	1000 VA / 1000 W		1500 VA / 1500W		2000 VA / 2000 W		3000 VA / 3000 W	
INPUT								
Nominal Voltage	100/110/115/120 /127 VAC or 200/208/220/230/240 VAC							
Voltage Range	55 - 150 VAC \pm 3 % or 110 - 300 VAC \pm 3 % at 50% load 80 - 150 VAC \pm 3 % or 160 - 300 VAC \pm 3 % at 100% load							
Frequency Range	40Hz ~ 70Hz							
Power Factor	\geq 0.99 @ nominal voltage (100% load)							
THDi%	\leq 5%							
OUTPUT								
Output Voltage	100*/110*/115*/120 /127 VAC or 200*/208*/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)	\pm 1%							
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57~63Hz							
Frequency Range (Batt. Mode)	50 Hz \pm 0.1 Hz or 60Hz \pm 0.1 Hz							
Current Crest Ratio	3:1							
Harmonic Distortion	\leq 2% THD (Linear Load), \leq 4 % THD (Non-linear Load)							
Transfer Time	AC to DC	Zero						
	Inverter to Bypass	4 ms (Typical)						
	ECO to Battery Mode	8 ms (Typical), 10 ms (max)						
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
Line Mode	\geq 89% @ battery fully charged				\geq 91% @ battery fully charged			
ECO Mode	\geq 96% @ battery fully charged							
Battery Mode	\geq 88%				\geq 90%			
BATTERY								
Battery Type	12 V / 9 AH	12 V / 7 AH	12 V / 9 AH	12 V / 9 AH	12 V / 7 AH	12 V / 9AH		
Numbers	2	3	3	4	6	6		
Typical Recharge Time	3 hours recover to 95% capacity for internal battery@ 2A charging current							
Charging Current	100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable 200/208/220/230/240 VAC models: default 2A, max. 12A adjustable				Default: 2A, Max: 8A adjustable			
Charging Voltage	27.4VDC \pm 1%	41.1VDC \pm 1%	41.1VDC \pm 1%	54.8VDC \pm 1%	82.2VDC \pm 1%	82.2VDC \pm 1%		
INDICATORS								
LCD Panel	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator							
ALARM								
Battery Mode	Sounding every 5 seconds							
Low Battery	Sounding every 2 seconds							
Overload	Sounding every second							
Fault	Continuously sounding							
PHYSICAL								
Dimension, D x W x H (mm)	397 x 145 x 220				421 x 190 x 318			
Net Weight (without battery) (kgs)	6.6	6.6	7	9.9	9.9	12.3		
Net Weight (w/ built-in battery) (kgs)	11.7	13	14.6	20.3	23.2	28		
ENVIRONMENT								
Humidity	20-95 % RH @ 0- 40 °C (non-condensing)							
Noise Level	Less than 50dBA @ 1 Meter with Fan speed control							
MANAGEMENT								
Smart RS-232 or USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							
STANDARD								
EMC/Safety	EMC EN62040-2 C2 for CE models							

*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.

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Voltify One 1KVA, 1.5KVA, 2KVA, 3KVA



Voltify One 1KVA, 1.5KVA, 2KVA, 3KVA Rack/Tower Online UPS Selection Guide

MODEL	Voltify One RT 1K		Voltify One RT 1.5K		Voltify One RT 2K		Voltify One RT 3K	
PHASE	Single phase with ground							
CAPACITY*	1000 VA / 1000 W		1500 VA / 1500 W		2000 VA / 2000 W		3000 VA / 3000 W	
INPUT								
Nominal Voltage	100/110/115/120/127 VAC or 200/208/220/230/240 VAC							
Voltage Range	55-150 VAC \pm 5% or 110-300 VAC \pm 5% @ 50% load 80-150 VAC \pm 5% or 160-300 VAC \pm 5% @ 100% load							
Frequency Range	40 Hz ~ 70 Hz							
Power Factor	\geq 0.99 @ nominal voltage (100% load)							
Harmonic Distortion(THDi)	\leq 5% @ nominal input voltage							
OUTPUT								
Output Voltage	100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)	\pm 1%							
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz							
Frequency Range (Batt. Mode)	60Hz \pm 0.1Hz or 50 Hz \pm 0.1Hz							
Current Crest Ratio	3:1 (max.)							
Harmonic Distortion	\leq 2% THD (Linear Load) ; \leq 4% THD (Non-linear Load)							
Transfer Time	AC Mode to Batt. Mode		Zero					
	Inverter to Bypass		4 ms (Typical)					
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	\geq 89% @ full charged battery				\geq 91% @ full charged battery			
ECO Mode	\geq 96% @ full charged battery							
Battery Mode	\geq 88%				\geq 90%			
BATTERY								
Battery Type	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 9 Ah	
Numbers	2	3	3	4	6	6	6	
Typical Recharge Time	3 hours recover to 95% capacity for internal battery@ 2A charging current							
Charging Current	100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable				200/208/220/230/240 VAC models: default 2A, max. 12A adjustable			
Charging Voltage	27.4 VDC \pm 1%	41.1 VDC \pm 1%	41.1 VDC \pm 1%	54.8 VDC \pm 1%	82.1 VDC \pm 1%	82.1 VDC \pm 1%	82.1 VDC \pm 1%	
ALARM								
Battery Mode	Sounding every 5 seconds							
Low Battery	Sounding every 2 seconds							
Overload	Sounding every second							
Fault	Continuously sounding							
PHYSICAL								
Dimension,DxWxH(mm)	410 x 438 x 88		410 x 438 x 88		510 x 438 x 88		630 x 438 x 88	
Net Weight (without battery) (kgs)	6.6	7.8	8.1	9.4	10.6	12.4	12.4	
Net Weight (w/built-int battery) (kgs)	11.6	14.1	15.5	19.5	23.3	27.5	27.5	
ENVIRONMENT								
Humidity	20-90 % RH @ 0- 40°C (non-condensing)							
Noise Level	Less than 50dB @ 1 Meter				Less than 55dB @ 1 Meter			
MANAGEMENT								
Smart RS-232/USB	Supports Windows® Family, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							
STANDARD								
EMC/Safety	cTUVus (comply to UL1778), Fcc (1-1.5K Class B, 2-3K Class A)							

*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.

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