

ONLINE UPS

Victor Series (10 kVA ~ 20kVA)



FEAUTES

- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 ~ 499 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery

- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event logs for check

Available Options

- RS232 and smart card slot include
- Optional parallel function, battery temperature compensation, USB, RS485 card, dry conta and SMS alarms

Rear Panel

- | | |
|---|-------------------------|
| 1. RS232 | 8. Fans |
| 2. EPO | 9. Bypass Breaker |
| 3. Parallel Port (optional) | 10. Input Breaker |
| 4. USB (optional) | 11. GND |
| 5. Temperature Detection (optional) | 12. Terminals and Cover |
| 6. Intelligent Slot | |
| 7. Reserved: for manual bypass or battery breaker or outlets etc. | |



10 kVA (H)

15/20 kVA (H)

10 kVA (S)

SPECIFICATIONS

MODEL	Victor 10 kVA		Victor 15 kVA		Victor 20 kVA	
	1031		1511		2011	
Capacity	10 kVA / 10 kW		15 kVA / 15 kW		20 kVA / 20 kW	
INPUT						
Input wiring	Three-phase five-wire (3 Φ + N + PE)					
Rated voltage	380 / 400 / 415 Vac					
Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)					
Rated frequency	50 / 60 Hz (auto-sensing)					
Frequency range	40 ~ 70 Hz					
Power factor	≥ 0.99					
Bypass voltage range	- 40% ~ +15% (settable)					
Total harmonic distortion (THDi)	$\leq 5\%$					
OUTPUT						
Output wiring	Single-phase three-wire (1 Φ + N + PE)					
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac					
Voltage regulation	$\pm 1\%$					
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	$\leq 1\%$ (linear load); $\leq 3\%$ (non-linear load)					
Crest factor	3:1					
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s					
BATTERIES						
DC voltage	192 Vdc (192 ~ 240 Vdc settable)					
Number of battery	16 pcs (16 ~ 20 settable)					
Inbuilt battery (standard model)	12 V / 9 Ah \times 16		/		/	
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional)					
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery					
SYSTEM						
Efficiency	$\geq 94\%$ at 100% load, max. 95% at 60% load, $\geq 98\%$ in ECO mode					
Transfer time	0 ms					
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure					
Max. number of parallel connections	4					
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)					
Display	LCD + LED					
OTHERS						
Operating temperature	0 $^{\circ}$ C ~ 40 $^{\circ}$ C					
Storage temperature	-25 $^{\circ}$ C ~ 55 $^{\circ}$ C (without battery)					
Relative humidity	0 ~ 95% (non-condensing)					
Altitude	≤ 1000 m, derating 1% for each additional 100 m					
IP rating	IP 20					
Noise level at 1 m	≤ 58 dB					
Dimensions (W \times D \times H) (mm)	191 \times 495 \times 711 (S) 191 \times 495 \times 350 (H)		191 \times 495 \times 515 (H)			
Packaged dimensions (W \times D \times H) (mm)	310 \times 685 \times 941 (S) 318 \times 617 \times 475 (H)		285 \times 593 \times 618 (H)			
Net weight (kg)	64 (S), 18.5 (H)		26.5 (H)			
Gross weight (kg)	72 (S), 20 (H)		28 (H)			

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

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