

## ONLINE UPS

## Invictus Series (6 kVA ~ 10 kVA)



### FEAUTURES

- 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
- Wide input voltage range (110 ~ 288 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. 12 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%

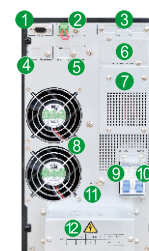
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal 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 included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, 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. |                         |



6/10 kVA (H)



6/10 kVA (S)

## SPECIFICATIONS

MODEL	Invictus 6 kVA		Invictus 10 kVA	
	0611 <i>L</i>	0611 <i>B</i>	1011 <i>L</i>	1011 <i>B</i>
Capacity	6 kVA / 6 kW		10 kVA / 10 kW	
INPUT				
Input wiring	Single-phase three-wire (1Φ + N + PE)			
Rated voltage	208 / 220 / 230 / 240 Vac			
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 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)	≤ 5%			
OUTPUT				
Output wiring	Single-phase three-wire (1Φ + N + PE)			
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac			
Voltage regulation	± 1%			
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz±0.1% Hz in battery mode			
Waveform	Sinusoidal			
Power factor	1			
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (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 / 7 Ah × 16		12 V / 9 Ah×16	
Charging current	Standard model: 1 A; Long time model: 5 A (default) ,1 ~ 5 A settable, 12 A (optional)			
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery			
SYSTEM				
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 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℃ ~ 40℃			
Storage temperature	-25℃ ~ 55℃ (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	≤ 55 dB		≤ 58 dB	
Dimensions (W × D × H) (mm)	191 × 465 × 711 (S) , 191 × 465 × 350 (H)		191 × 495 × 711 (S), 191 × 495 × 350 (H)	
Packaged dimensions (W × D × H) (mm)	310 × 654 × 941 (S), 318 × 595 × 475 (H)		310 × 685 × 941 (S), 318 × 617 × 475 (H)	
Net weight (kg)	53 (S) , 14.5 (H)		62 (S) , 16.5 (H)	
Gross weight (kg)	61 (S) , 16 (H)		70 (S) , 18 (H)	

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

## LENTO INDUSTRIES PVT. LTD.

Registered office : 05, Ground Floor, Plot No. 556,  
School Block, Shakarpur Delhi-110092  
Tel : +91-11-65912334, Email : [info@lentoindia.com](mailto:info@lentoindia.com)

Manufacturing Unit : A - 27, Sector-58, Noida,  
GautamBuddha Nagar, Uttar Pradesh - 201301  
Tel : +91 - 8527476197, Email : [info@lentoindia.com](mailto:info@lentoindia.com)

**TOLL FREE NO. : 1800-313-0746**

**[www.lentoindia.com](http://www.lentoindia.com)**