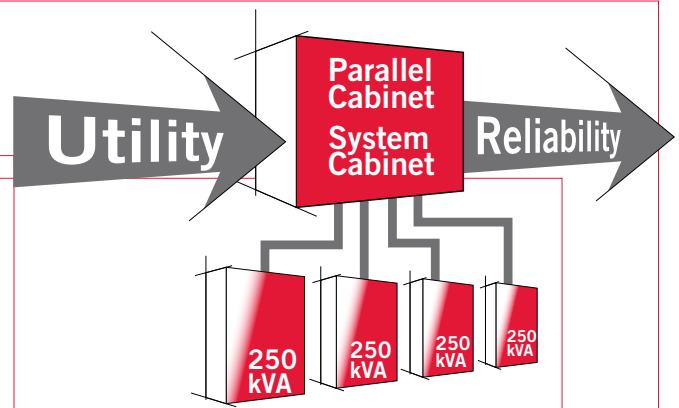


The 1500 iC combines unmatched modularity, reliability and flexibility in one UPS. This system uses 250 kVA modules in a redundant configuration to improve reliability. The 250 kVA modules work within in a highly flexible UPS architecture, allowing the UPS to grow with the load – as the load increases, another module is added for increased capacity or redundancy.



# 1500iC CLEANSOURCE UPS

battery-free energy storage | high reliability | 50 Hz | 98% efficiency | 250 | 400 V | 500 | 1000 | 1350 kW | 1500 kVA

## SYSTEM FEATURES

- Rugged, on-line and fault-tolerant UPS**
- Most efficient UPS architecture**
- High partial-load efficiency**
- Handles multi-load characteristics**
- Cost-effective lifecycle cost**
- Modular and redundant architecture**
- Predictable flywheel energy storage**
- Low service and maintenance requirements**
- Rapid recharge time**
- Predictive failure analysis**
- Wide operating temperature range**
- Remote and local monitoring**
- Fault compartmentalization**
- Simple and cost-effective installation**
- Multi-vendor generator compatibility**
- Field-proven reliability**
- No hazardous waste material**
- Smallest available footprint**
- 20-year design life**
- Redundant generator start option**

## FACTORY INSTALLED EQUIPMENT

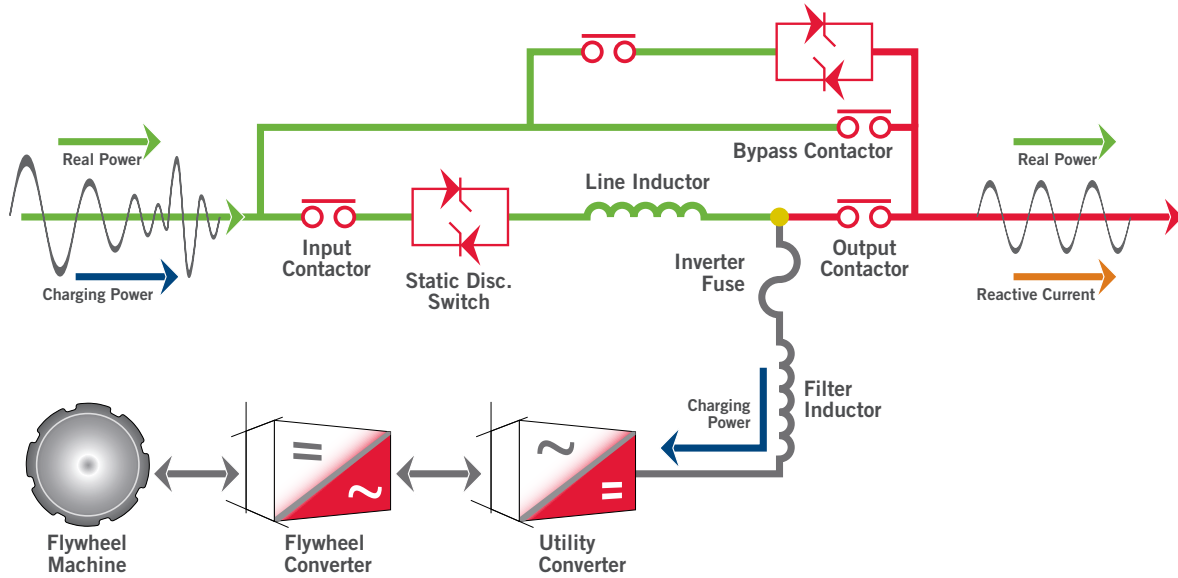
### Standard

- IGBT-based UPS technology
- Flywheel energy storage
- Superior power conditioning
- High-speed voltage regulation
- High overload capacity
- Continuous duty rated static bypass circuit
- Redundant cooling fans
- Redundant control power
- User-friendly color LCD monitor/control panel
- Power factor correction
- Intelligent self-diagnostics
- Serial connections
- Back-feed protection

### Optional

- CSView™ — real-time monitoring software
- Bottom cable entry
- Maintenance bypass
- Remote status panel
- Separate bypass input
- External synchronising input
- Remote SNMP/MODBUS monitoring capability
- Remote status panel
- Seismic provisions
- Separate bypass input
- Redundant flywheel and UPS
- GenSTART Generator Start Power

## PARALLEL ONLINE ARCHITECTURE



### 1500iC PRODUCT SPECIFICATIONS

RATING	
Maximum kVA	1,500
Maximum kW	1,350
INPUT	
Voltage	380/400/415 VAC 3-phase
Voltage Range	+10% / -15% (programmable) +/- 10% at 380 VAC
Frequency <sup>1</sup>	50 Hz +/- 10% maximum (programmable) +/- 3% (default)
Power Factor	0.99 at rated load and nominal voltage
Harmonic Current Distortion	
Linear Load	<3% at 100% load
Non-Linear Load <sup>2</sup>	<8% at 100% load
Current - Nominal (380 VAC)	2,128
Current - Nominal (400 VAC)	2,022
Current - Nominal (415 VAC)	1,949
Current - Max. Continuous	2,400
Current - Max. Non-Continuous	2,640
Surge Withstand	Meets IEEE 587/ANSI C62.41
Walk-In	1 to 15 seconds (programmable)
OUTPUT	
Voltage	380/400/415 VAC 3-phase
Voltage regulation	4-wire
Steady state	+/-1% for +/-10% input
Flywheel mode	+/-1% steady state
Transient	+/-1% within 50 mSec for 100% load step
Voltage distortion <sup>2</sup>	<3% linear loads and <5% for 100% non-linear loads
Frequency <sup>1</sup>	50Hz (mains synchronised) (normal operation +/- 0.2% free running)
Slew Rate	Adjustable from 0.2kHz/second to 3.0kHz/second
Current - Nominal (380 VAC)	2,282
Current - Nominal (400 VAC)	2,168
Current - Nominal (415 VAC)	2,089
Overload Capability-Mains Operation	
10Ms /1s /30s /10Min Continuous	1000% / 500% / 200% / 125% / Up to 105%
UPS Efficiency	98%

Environmental	
Audible Noise	<75 dBA at 1m
Temperature	
Operating	0 to 40° C
Storage	-25 to 70° C
Humidity	5% to 95% (non-condensing)
Altitude	Up to 1,000 meter (derate operating temperature for higher elevations)
Emissions and Immunity	EN 50091-2
Heat Rejection	
kW	35.1
BTU/Hr	119,676
PHYSICAL DATA	
Height (w/o wireway or DC bus)	1,981 mm
Width	1,485 mm per module
Depth	865 mm
Weight	2,134 kg per module
Cable Entry	Top or Bottom
Safety	EN64040-1-1

<sup>1</sup> 60Hz Available

<sup>2</sup> EN59001-3

### STANDARD RIDE-THROUGH TIMES (SECONDS)

Load/ # of Modules	7 X 250kVA Modules	6 X 250kVA Modules	5 X 250kVA Modules	4 X 250kVA Modules
1500-kVA / 1350-kW	17.5	15	N/A	N/A
1250-kVA / 1125-kW	21	18	15	N/A
1000-kVA / 900-kW	26.25	22.5	18.75	15
750-kVA / 675-kW	35	30	25	20

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