



HIGH
EFFICIENCY



CLEAN
ENERGY



ECO-FRIENDLY
TECHNOLOGY



ALL DEVICES
COMPATIBLE



Orion INTEGRA Series

10KW ~ 40KW

19" Rack Mount / Tower Convertible UPS

STANDARD FEATURES

- Compact 19" Rack Mount Chassis
- Mounting Feet for Freestanding Tower Configuration Optional
- Lightweight Design
- Power Factor Corrected
- 5.5" Color LCD Touch Screen Interface
- Configurable for Three-Phase Input and Output or Three-Phase Input / Single-Phase Output



Number of Batteries
(24-40) and charging
current adjustable



Parallelable Rack
UPS up to 4 units



3 Level IGBT
Technology



Easy Transportation
and Installation



Tower or Rack
Compact Design



Display
Configuration 1:1,
3:1, 3:3



ECO Mode
Configuration



UPS for Rack
Cabinets



Communication RS485
Intelligent+EPO
Interface

GENERAL OVERVIEW

The ORION Integra Series Rack-mount double conversion True Online UPS is fully controlled by advanced DSP technology and 3 Level Inverter IGBT Technology with upto 96% efficiency. These units pack a full 10~40 KW worth of power into a lightweight, very compact form factor. The chassis can be mounted in a standard 19" rack, or installed as a tower with the included mounting feet. The design can be configured for three-phase input and output, or three-phase input / single-phase output. Advanced power factor correction is included.

- Capacity up to 160kW
- N+X redundancy
- Tower or rack installation



Typical Applications Include:

- Internet Data Centers
- Network Servers and Work Stations
- Control Systems
- Communication Systems
- Office Applications

FEATURES

- True Online double conversion UPS High Performance DSP based technology
- IGBT Rectifier and IGBT Inverter for lowest input Harmonics and Highest Efficiency
- Compatible with 19" standard rack cabinet, convenient for integration in IT Racks
- 3 Level Inverter Technology for maximum efficiency
- Fully rated power (kVA=kW), i.e, Output PF= 1 for maximum power availability.
- Active Input Power Factor Correction (PFC) 0.99
- Wide Range of Input Voltage And Frequency
- On-Site Scalability with N+1 Parallel Redundant Configuration (PRS) upto 4 units
- Friendly HMI Interface: 5.5" touchscreen color LCD with graphic display
- Flexible Configuration of 3 phase in/out or 3 phase in single phase out
- Intelligent Charging Management: The system intelligently controls the whole process of charging and discharging the battery, effectively improving the life expectancy of the battery.
- Galvanic Isolation through Integrated Isolation Transformer (Optional)
- Full protection of overvoltage, circuit short and over temperature
- Automatic fan speed adjustment
- Abundant interface options: RS232, RS485, USB,SNMP, Intelligent Card



TECHNICAL SPECIFICATIONS - INTEGRA SERIES UPS

MODEL	INT1033	INT1533 INT2033	INT3033	INT4033
Power Rating	10KVA/10KW	15KVA/15KW, 20KVA/20KW	30KVA/30KW	40KVA/40KW
AC INPUT				
Input	3P/1P + N+ PE			
Voltage & Frequency	380/400/415VAC (L-L) or 220/230/240 VAC (L-N), 50/60Hz			
Power walk-in	0 ~ 100% within10 seconds			
Input Voltage Range	304~485 VAC (L-L) or 175~280 VC (L-N) and 228V~485VAC (L-L) or 130-280 VAC(L-N) , derated			
Input Frequency Range	40Hz~70Hz			
Input PF & THDi	>0.99 (PF) and <3% THDi (100% Linear Load)			
BYPASS				
Voltage & Range	380/400/415 VAC, 3 Phase Selectable, -40%~+25%			
Frequency & Range	50/60Hz Selectable, ±1Hz, ±3Hz, ±5Hz			
Bypass Overload	125% continuous;130% for10mins;150%, for 1min;>150%,1s			
OUTPUT				
Voltage & Frequency	380/400/415 VAC, 3 Phase (Optional 220/230/240 VAC, 1 Phase upto 30 KVA), 50/60Hz			
Output PF & Crest Factor	1 (KVA = KW) with 3:1 CF			
Output THD	<1% for linear load and <3% non-linear load according to IEC/EN62040-3			
Overload	110% for 1 hour; 130% for 10 min;150% for 1min; >150% for 200ms			
BATTERY				
Battery number	±240 VDC (24 – 40 Batteries, selectable)			
Charger Capacity	up to 20% *Output power			
EFFICIENCY				
AC Mode	96% max			
PROTECTION				
Protection	Battery Over/Under Voltage, Output & Input Over/Under Voltage, Output Overload, Short Circuit, Over Temperature, Battery Deep Discharge, IP20 (IP 21 optional), Breakers (Input, Bypass, Output)			
Self-Diagnosis	UPS carries out self-test of Rectifier, Charger, Batteries & Inverter sections during start-up.			
Cold Start	UPS can start up On Batteries without AC Supply (Mains)			
Auto-Restart	UPS can automatically start after restoration of AC power following shutdown due to low battery (end of discharge)			
USER INTERFACE				
LCD Display	Colour touch screen LCD Screen for Comprehensive display of UPS status, Measurements, Settings and Fault			
Measurements (On LCD)	Input: Voltage & Frequency, Bypass: Voltage & Frequency, Output: Voltage & frequency, Battery Remaining time, Battery & Load Level Indicator, Battery Status/Test-Result, System Date/Time Setting, Temperature, Charging current, Historical Events, Power (kVA, kW). PF, Inverter/Rectifier IGBT temperatures, Fault codes			
Fault Indication (On LCD)	Main Input Fault, General Fault, Battery Fault, Bypass Static Switch Fault, Parallel Fault, DC Bus Fault, Output High/Low, Over Load, Short Circuit, Over Temperature, CAN Fault, Charger Fail, Battery Open, DC High/Low, Fan Lock, Line Phase Error, Parallel System Configuration Error, EPO enable/disable			
Event Logs	≥ 500 event logs			
Indicators /Alarm	UPS On/Off/Mains/Battery/Bypass, Mimic display, Short Circuit/DC Fault(trip), Overload, Battery Low, Shutdown			
Bypass	Automatic & Bi-directional static by- pass (In-built) and Maintenance Bypass			
REPO	Remote Emergency Power OFF to shutdown UPS when emergency situation happens.			
MANAGEMENT				
Smart RS-232/USB	Supports Windows@ 7/8/10, Linux and MAC			
SNMP	Power management from SNMP manager and web browser, ModBus, Environment Monitoring			
Other Communication Options	RS485, Programmable dry contacts			
ENVIRONMENTAL				
Temperature	0 ~ 50°C (Operating) with derating; -20 ~ 70°C (Storage)			
Operating Altitude	0 to 3000m (0 to 10,000 ft)			
Relative Humidity & Noise	0 ~ 95% Non-condensing; <55dB (10-20KW) <60dB (30-40KW) @ 100% load			
PHYSICAL DATA				
Dimension W*D*H (mm)	438*780*130	438*780*130	438*700*174	438*700*174
Weigh (kg)	25	30	41	43
STANDARDS				
System Standards & Certifications	ISO 9001, ISO 14001, ISO 45001, ISO 50001, CE, RoHS			
	IEC 62040-1 (Safety), IEC 62040-2 (EMC), IEC 62040-3 (Performance, IEC 62040-4 (Environmental Aspects)			

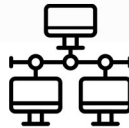




DATACENTRES



INDUSTRIAL
AUTOMATION



COMPUTER
NETWORKS



HEALTHCARE



SMART EDUCATION



TELECOM



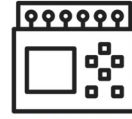
MEDIA



AVIATION



BANKING &
FINANCE



PROGRAMMABLE
LOGIC CONTROL

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