

Combining latest innovation in IGBT technology and advanced DSP digital control with conventional time-proven technique of automatic static bypass, VS ActivRack is the latest modular, parallel-redundant online power system in IT-grade rack to provide scalable critical power protection from 10kVA to 200kVA. It is specially designed to match industry standard 19" IT racks where the need for high-density power in a compact floor space cost is paramount. It provides flexibility, functionality and scalability for power hungry environment such as data centre, Internet Service Providers and small-to-medium server farms.



## Features / Benefits

- Modular and scalable in 10kVA sizing
- Swappable design for quick replacement
- High power-density in a small footprint
- Very low Mean-Time-To-Repair
- Real time parallel-redundant operation
- Separated bypass design
- Large LCD screen display
- Ease of operation and installation
- Specialized monitoring software
- Matching battery module or external battery in matching rack

## Technical Specifications

### Capacity

Maximum power, per rack	60	90	120	100	150	200
Output power, per module, kVA	10	15	20	10	15	20
Output power, per module, kW	8	12	16	8	12	16
Max. number of modules	6			10		
Dimension, w x d x h, mm	600x900x1600			600x900x2000		
Weight per module only, Kg	20	21	22	20	21	22
Weight UPS rack only, Kg	150			180		

### Output

Phase	Three Phase, 4 wires and Ground
Rated Voltage (Sinusoidal)	380 / 400 / 415 Vac
Transient Response	25 ms
Voltage response at dynamic load change	+/-5% at dynamic 0 to 100% load change
Total harmonic distortion	<= 1.5% on linear load
	<= 3% on non-linear load
System Efficiency	>= 95% (Normal mode), >=99% (ECO mode)
Battery Mode Efficiency	95%
Overload Capacity	Up to 105% continued operation, at 110% 60min, at 125% 10min, at 150% 1min. at rated current
Heat Dissipation, BTU/Hr	3275
Architecture	Modular, Parallel Load Current Sharing

### Battery

DC Voltage	+/- 240Vdc
------------	------------

### Input

Phase	Three Phase 4 wire and Ground
Voltage Range	-40% to +25%
Frequency Range	45 ~ 70 Hz auto-sensing
Current Harmonics	<=3%

### Bypass

Type	Independent module control and integrated static bypass module
Voltage Range	-20% to +15%, settable
Frequency Range	40 ~ 70 Hz auto-sensing
Transfer time	Inverter / battery or inverter / bypass switch time is 0ms

### System

Remote control	Emergency Power-Off and EPO
Communication interfaces	RS232, Rs485. Dry contacts & SNMP monitoring cards
Operating temperature	0 to 40 degree Celcius
Relative humidity	< 95% without condensing
Audible noise	< 55dB at 1 m
Protection degree	IP 20
EMC standards	IEC 62040-1-1, IEC 62040-2, CE

Runtime varies with state of charge, room temperature, percentage of load, discharge frequency & other environment factors