

# PowerReactor



## **Online double-conversion parallel-redundant 3kVA-250kVA / 1/3-phase output**

PowerReactor is the latest in modular, parallel-redundant, and scalable UPS systems for large mission-critical applications. This could include installations in hospitals, banks, manufacturing, telecommunications and IT. If the power requirement of your system is more than 3kVA, PowerReactor is the perfect solution - no other UPS has this combination of features.

Each of the 3kVA power modules is a self-contained, independent UPS, which contains a dedicated rectifier, charger, inverter, battery and micro-controller (CPU). The unit ensures that there is no single point of failure, thus providing maximum uptime and availability.

The intelligent cabinet enables them to synchronise with each other. This means that if a fault occurs, then the cabinet automatically redistributes the load. The supervisor can then hot-swap the faulty module and restore the n+1 status. The load remains fully protected at all times and there is no risk of downtime.

## **Parallel redundancy**

The PowerReactor is based on parallel-redundant architecture, which is designed to supply power continuously even if a fault occurs in a power module.

## **Modular**

Custom-build your solution with 3kVA modules, up to 300kVA of parallel-redundant power systems.

## **Scalable**

The scalability of EFFEKTA®'s new PowerReactor series protects your investment, ensuring that your UPS can be easily upgraded in the future.

## **Flexible**

Each PowerReactor power module is a fully functioning UPS. Build to the exact specification you need. Upsize or downsize as your requirements change.

## **Hot-swappable**

PowerReactor power modules can be easily replaced without turning the UPS off, providing uninterrupted protection during servicing or upgrading.

On request:

## PowerReactor 9001

Online double-conversion

- 1 - 12kVA
- 1kVA modules
- Modular
- Hot-swappable
- Fully scalable
- Parallel-redundant
- Optional as 19" system (up to 3kVA)



## PowerReactor 9003

Line-interactive

- 0.8 - 4.8kVA
- 400VA modules
- Modular
- Hot-swappable
- Fully scalable
- Parallel-redundant
- Optional as 19" system (up to 1.6kVA)



# Specifications

Type	PowerReactor	3kVA power module
Input specifications	Nominal voltage	220/230/240V - 380/400/415V - 120/208V
	Voltage range	180-275V - 312-477V - 90-140V - 160-240V
	Frequency	60Hz / 50Hz ±3%
Output specifications	Input power factor	>0.9
	Nominal voltage	230V / 120V
	Voltage regulation	±3%
	Power rating	3kVA
	Output power faktor	0.7
	Voltage distortion	<3% THD
	Frequency	50/60Hz ±0.2% / synchronised / (on battery)
	Waveform	Sine wave
	Current variation	0-100%
	Overload capability	150% for 10 seconds
	Load crest ratio	3:1
Battery specifications	Battery type	Sealed lead-acid / maintenance-free
	Battery rating	12V, 7Ah
	No. of batteries	10
	Back-up time	5-15 minutes
	Battery diagnostics test	Automatic self-test
Environmental specifications	Audible noise	<55dBA
	Ambient temperature	0-40°C
	Relative humidity	<95% without condensation
	Altitude	<3000m without derating
System specifications	System architecture	Online sine wave / modular / parallel-redundant / hot-swappable
	System operation	Automatic with manual switch control
	System diagnostics	Automatic self-test
	User interface	12 LEDs (LEDs with load / backup and alarms) / optional LCD display
	Communications	Intelligent serial interface – RS232 (DB9)
	SNMP capability	Optional via adapter
Physical specifications	Dimensions (WxHxD)	482 (19") x 175 x 711mm
	Weight	46kg
Approvals and compliance	Approvals	CE / UL / CSA
	Surge protection	EN50082-1, in accordance with IEC 801-4
	EMI suppression	IEEE 587 Category A&B EN50091-2 Class A, FCC Class A

### Smart communication

Even the basic model of the PowerReactor provides comprehensive communication options via RS232. This enables remote monitoring and remote-controlled shutdown via UPS-management software. A remote-controlled terminal is also available.

### Battery extension

Each module of the PowerReactor has its own battery to supply the system with absolute redundancy. The back-up time can be extended via battery modules.