



AC UPS systems



Fig. Power Vario, DPA UPScale RI, Power Value/Scale, Power Wave (left to right).

General information:

Static converter for 1- and 3-phase grids as problem solver for

- Voltage and frequency adaptation 16 2/3 / 50 / 60Hz out of country or in test field
- Voltage stabilisation to +/- 20% if there are grid voltage fluctuations
- UPS operation with any back-up times

Riedel supplies complete engineering from the problem to the finished new grid including grid adaptation, buffering and grid distribution to your machines or test stations. We offer individualised or modular building block system solutions. Interfaces for your process connection are available and are adapted to your environment.

Type	PowerVario	PowerValue™ 11	PowerValue™ 31
Enclosure / cabinet type	19" or upright unit, multifunctional	upright unit / individual block	
Output power	1-10kVA	7,5-12kVA	7,5-20kVA
Parallel connection possible to	4 modules of 4.5 or 6kVA	-	
Output	220/230/240V single-phase		
Classification according to IEC/EN 62040-3	VFI-SS-111		
Operating mode	on-line / continuous operation		
Energy efficiency	to 92%	to 95%	
Power density per m2	to 3 kVA per HU (19")	to 44kVA/m²	
Max. weights without batteries dependent upon cabinet type	to 29.7kg	to 204kg	
Battery housing	in UPS enclosure		
Service bypass / revision switch	Option	standard	
Slot for network card	integrated		
Network cards SNMP/ModBus/contacts	Option		
RS-232 interface	standard		
Line reactions THDI	< 6%	< 12%	< 25%, optionally 12%
Reactive current compensation / PFC	standard		
Scalable / extendable (n+1)	Yes	-	
Slide-in modules, can be extended during running operations	only 4-5 and 6kVA	-	

Type	PowerScale	PowerWave 33	DPA UPScale RI™	Conceptpower Modular
Enclosure / cabinet type	upright unit / individual block		Slide-in modules / rack	
Output power	10-40kW	60-300kVA per individual block	10-40kW per rack	80-300kVA per cabinet
Powers of individual slide-in modules	-	-	10/20kW	80/100kVA
Max. power per system rack	-	-	20 or 40kW	300kVA
Max. power per rack with n+1 redundancy	-	-	to 20kW	to 200kVA
Parallel connection possible to	20 systems	10 systems	2 modules	10 modules
Output	380/220; 400/230; 415/240V three-phase			
Classification according to IEC/EN 62040-3	VFI-SS-111			
Operating mode	on-line / continuous operation			
Energy efficiency	to 96.5%	to 95.5%	to 95.5%	to 95%
Power density per m2	to 100kW/m ²	to 363kW/m ²	to 122kW/m ²	to 197kW/m ²
Max. weights without batteries dependent upon cabinet type	to 145kg	from 230kg to 410kg	from 59kg to 136kg	to 700kg
Battery housing	in UPS enclosure	battery cabinet or frame or in UPS enclosure for 60-100kVA	UPS battery cabinet or frame	battery cabinet or frame
Service bypass / revision switch	standard			
Slot for network card	integrated			
Network cards SNMP/ModBus/contacts	Option			
RS-232 interface	standard			
Line reactions THDI	< 3%	< 3.5%	< 3%	< 7-9%
Reactive current compensation / PFC	standard			
Scalable / extendable (n+1)	Yes (horizontal)		Yes (horizontal + vertical)	
Slide-in modules, can be extended during running operations	-		Yes	
central monitoring with Newavewatch™ via TCP/IP, analogue, ISDN or GSM	Option		-	