

UPS range Powerwat+33X

power range from 10 up to 30 kVA
parallel operation up to 4 pcs
new-fashioned design

UPS range Powerwat+33X are true on-line with double conversion technology, i.e. with permanent working rectifier and inverter. Output inverter is DSP controlled - in this way is achieved max. quality of output voltage independently on input voltage and output load. There is IGBT rectifier also DSP controlled and contains PFC circuit which ensures input low level power factor and low ripple input current. UPS can work in ECO MODE system - UPS supplies load through by-pass line and the load is switched on inverter only during AC fail. Very high efficiency (up to 98%) is ensured this way. UPS can work in parallel redundant operation up to 4 pcs. Batteries are internal for basic autonomy. For longer back-up time are installed in external battery cubicles.



Technical description				
UPS type	Powerwat+3310/15XS	Powerwat+3310/15XL	Powerwat+3320/30XS	Powerwat+3320/30XL
power (kVA)	10 / 15	10 / 15	20 / 30	20 / 30
power (kW)	10 / 15	10 / 15	18 / 27	18 / 27
output pf	1,0		0,9	
input				
input voltage	380/400/415 VAC			
input frequency	50 / 60 Hz			
input voltage range	304 – 478 VAC			
input frequency range	40 – 70 Hz			
input pf	>0,99			
input THDi	< 4%		< 3%	
batteries				
battery voltage	+/- 240 VDC			
output				
rated output voltage	380/400/415 VAC			
output frequency	50 / 60 Hz			
output voltage precision	±1.5%(0-100% linear load)			
transient response	<5% for step load (20% - 80% -20%)			
output frequency regulation	50/60Hz ±0.1%			
synchronized range	settable ±0.5Hz ~ ±5Hz, default ±3Hz			
output THDu	<1% linear load,; <6 % non-linear load according IEC/EN62040-3			
output overload	110%, 60min; 125%, 10min; 150%, 1min;			
efficiency	> 95 %			
general				
acoustic noise level (at 1m)	58dB @ 100% load, 52dB @ 45% load		65dB @ 100% load, 62dB @ 45% load	
operating temperature	0 - 40°C			
relative humidity	0 - 95%			
dimension (w x d x h, mm)	250*840*715	250*660*715	350*738*1335	250*680*770
weight (kg)	50	28	89	52
colour	black,RAL 7021			
protection level	IP20			