

UPS range Powerwat+11TS/L

power range from 6 up to 20 kVA
parallel operation up to 3 pcs
new-fashioned design

UPS range Powerwat+11TS/L are true modular 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 bypass 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 3 pcs. Batteries are internal for basic autonomy. For longer back-up time are installed in external battery cubicles.



Technical description			
UPS type	Powerwat+1106TS	Powerwat+1110TS	Powerwat+1115TL/20TL
power (kVA)	6	10	15/20
power (kW)	5,4	9	13,5/18
output pf	0,9		
input			
input voltage	220,230,240 VAC		
input frequency	50 / 60 Hz		
input voltage range	176-275VAC		
input frequency range	40 – 70 Hz		
input pf	0,99		
input THDi	< 3%		
batteries			
battery voltage	192 VDC		
output			
rated output voltage	220,230,240 VAC		
output frequency	50 / 60 Hz		
output voltage precision	±1%(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,; <5 % non-linear load according IEC/EN62040-3		
output overload	110%, 10min; 130%, 1min; 150%, 0,5min; shutdown after 1 min.(Line mode)		
efficiency	> 93 %, 98% Eco mode		
general			
acoustic noise level (at 1m)	48dB @ 70% load		53dB @ 70% load
operating temperature	0 - 40°C		
relative humidity	0 - 95%		
dimension (w x d x h, mm)	250*526*640		250*544*750
weight (kg)	57		33
colour	black,RAL 7021		
protection level	IP20		