

# Protect 1 TOWER

## 1-3 KVA with batt



### Applications



### 2 Sizes and 3 Power levels



3000VA    2000VA/1000VA

### Specifications



- On-line “double conversion” technology (VFI)
- Output power factor 0,9
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass
- Input power factor up to 0.99
- Battery (DC) cold start
- Site wiring fault indication
- Self testing at UPS startup
- RJ45/11 network protection
- EPO Contact
- Intelligent management through RS232 & USB
- For extended backup time check
- Protect 1 TOWER series (external batteries)

#### Options:

- SNMP adapter
- Relay card (dry contacts)
- External maintenance bypass
- Additional / external battery packs

- 2 years warranty

### Smallest footprint with best quality/price ratio !



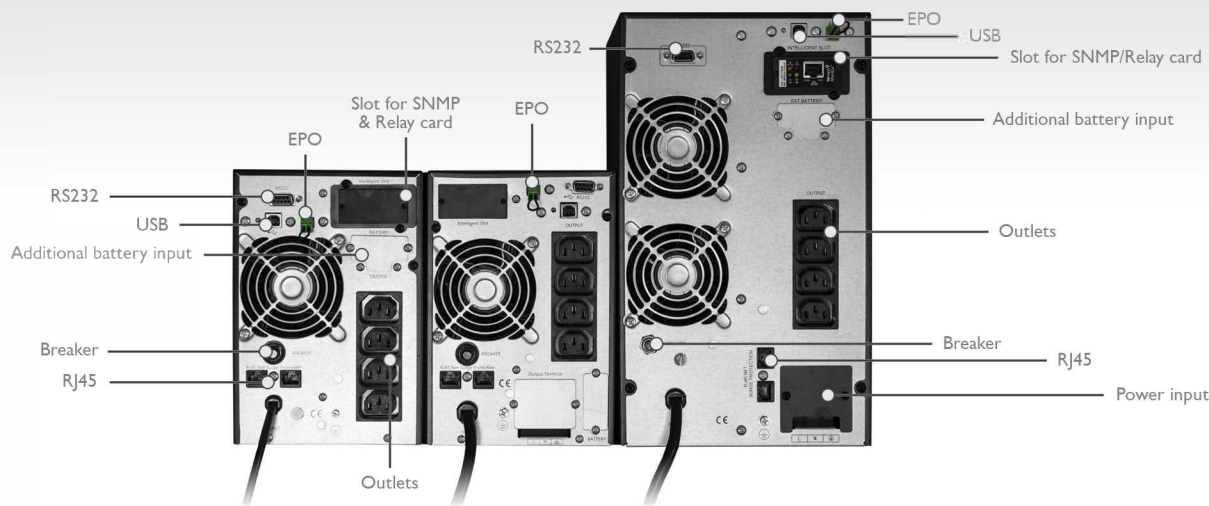
The comprehensive graphic display provides easy read-out status of the UPS from the screen, such as input, voltage, load level, battery level, error code...

### Monitoring Software Included

#### Smart USB



It offers real-time power and UPS status monitoring with automatic or scheduled shutdown and many other advanced power management functions.



Protect 1 TOWER	Model		
	1000VA	2000VA	3000VA
Power (Watt)	900W	1800W	2700W
<b>— Input</b>			
Minimum voltage	160/115Vac (at 100/50% load)		
Maximum voltage	290/295Vac (at 100/50% load)		
Frequency	45-55Hz for 50Hz or 55Hz-65Hz for 60Hz (auto-sensing)		
Input power factor	≥ 0.99		
Bypass voltage range	186-252Vac		
Harmonic distortion (THDi)	≤ 7% at 100% non-linear load		
<b>— Output</b>			
Voltage	208/220/230/240Vac selectable		
Power factor	0,9		
Harmonic distortion (THD)	< 3% at 100% linear load		
Frequency	50/60Hz +/-0,2%		
Voltage regulation	+/-2% at nominal voltage		
Crest factor	3:1		
Efficiency at 75-100% load	>88% (AC mode) / >90% (battery mode) / >94% (ECO mode)		
<b>— Battery (internal)</b>			
Type	VRLA, AGM		
Voltage	24Vdc (2x9Ah)	48Vdc (4x9Ah)	72Vdc (6x9Ah)
Backup time	5-8min with internal batteries at 80% load / extendable with external batteries		
Internal charger power	1A		
<b>— Protection</b>			
RJ11/45 protection	Yes		
Input / Output	Overvoltage, short-circuit, battery deep discharge, thermal protection		
Overload in battery mode	101-150% : 30sec, > 150% : 300msec before inverter cutt off		
Overload in AC mode	101-150% : 30sec, > 150% : 300msec before switching to bypass		
<b>— Alarms - informations</b>			
Audible	Battery backup, battery low, overload status, fault status		
LED	Mains, inverter, bypass, fault, battery level		
LCD	Input & output voltage, load %, battery voltage, error codes		
<b>— Bypass</b>			
Type	Internal (automatic) static bypass (external manual bypass optional)		
<b>— Environment</b>			
Temperature / Altitude / Humidity	0-40°C / less than 1500m / 0-95% non-condensing		
Audible noise at 1m	< 50dB		
<b>— Interface</b>			
Standard	RS232 / USB (software included) / EPO		
Optional	SNMP / Relay card (dry contacts)		
<b>— Dimensions</b>			
Weight	9kg	16,4kg	25,1kg
WxDxH	144x300x215mm	144x420x215mm	195x480x355mm
<b>— Standard</b>			
Certificate	CE		

ON-LINE