# Commander Tower

## 1100 | 2000 VA

### Line Interactive UPS

The **PowerShield Commander** is a sophisticated pure sine wave, line interactive UPS. Besides providing Automatic Voltage Regulation (AVR) it also provides for a Pure Sine Wave output while in backup mode.

This UPS is a cost effective solution for protecting applications such as networking, telecom, security and motors to name a few.

# Features

## Pure Sine Wave Output

- The Commander Tower provides a sine wave output, even when the UPS is running off of its batteries.
- The pure sine wave offers an economical solution to back up gates, cameras, computers, motors, telephone systems and other sensitive equipment.

## Output Power Factor 0.9

- With an output power factor of 0.9 the Commander Tower is a high-density UPS that will provide higher performance and efficiency to critical applications.

## Programmable Power Management

- Features a combination of both Australian and IEC outlets.
- With programmable power management outlets users can easily and independently control load segments. During power failure this feature enables users to extend battery time to mission-critical devices by shutting down non-critical devices in a timely manner.

## Modern, Informative LCD

- Designed by Power Shield engineers this modern LCD features extra large numeral displays and an informative mimic allowing users to view up to date information at a glance.

## Inbuilt Battery Management (HID)

- Plug and play on any computer or NAS drive
- Allows for orderly shutdown without software

## ECO Mode

- With built in advanced ECO mode this UPS will achieve an efficiency of up to 98% during normal mains operation. Using this option will allow for reduced ongoing running costs.

## HID Communication via USB

- HID can be used for simple management with Windows, Apple, Linux and NAS devices and a large variety of industrial controllers that support HID
- HID ensures a safe and orderly shutdown in the event of a prolonged power outage

## NetGuard software communication via USB

- The free, downloadable NetGuard software provides complete power monitoring. Parameters such as input/output voltage, battery capacity and load level are easily viewed. It also ensures a safe and orderly shutdown in the event of a prolonged outage

## Smart AVR with Buck and Boost

- With a built in voltage regulator, the Commander Tower will maintain regulated nominal output without using battery power during brownouts and overvoltages.

## Emergency Power Off Function (EPO)

- This feature can turn off and isolate the UPS in the event of fires or other emergencies.

### Options

- PSSNMPV4 - SNMP card (option to connect PSEMD)
- PSEMD - Environmental Monitoring Device for temperature and humidity
- PSModbus - Modbus card
- PSAS400T & PSAS400D - AS400 dry contact card
- PSMBS2k, Maintenance Bypass Switch
- PSCXW - 1 year extended warranty

DESIGNED BY AUSTRALIANS FOR AUSTRALIAN CONDITIONS

**PowerShield**®

## COMMANDER TOWER

| MODEL | Commander 1100 | Commander 2000 |
|---|---|---|
| Model Number | PSCM1100 | PSCM2000 |
| Capacity (PF = 0.9) | 1100 VA / 990 W | 2000 VA / 1800 W |
| **INPUT** | | |
| Nominal Voltage | 240Vac | |
| Acceptable Voltage Range | 162-290 VAC | |
| Frequency Range | 50/60Hz ± 5Hz (auto sensing) | |
| **OUTPUT** | | |
| Voltage Regulation (AC Mode) | 240Vac (Selectable 208/220/230Vac) ± 10% AVR | |
| Voltage Regulation (Batt. Mode) | ± 1.5% (before battery alarm) | |
| Frequency Range (Batt. Mode) | 50 Hz or 60 Hz ± 1 Hz | |
| Current Crest Ratio | 3:1 | |
| Total Harmonic Distortion | 2% max @ 100% linear load, 5% max @ 100% non-linear load (before low battery alarm) | |
| Transfer Time | 6ms (Typical), 10ms max. | |
| Waveform (Batt. Mode) | Pure Sine Wave | |
| **EFFICIENCY** | | |
| AC Mode | 98% (Advanced ECO design) | |
| Battery Mode | 89% | 91% |
| **BATTERY** | | |
| Standard Model — Battery Type & Number | 12V / 9AH (x2) | 12V / 9AH (x4) |
| Standard Model — Recharge Time | 4 hours recover to 90% capacity | |
| **PROTECTION** | | |
| Full Protection | Overload, thermal, short circuit, discharge and overcharge protection | |
| Surge Protection | 1968 Joules / 39000 Amps | |
| **ENVIRONMENT** | | |
| Operation Temperature | 0 - 40°C | |
| Relative Humidity | 0-90% (RH non-condensing) | |
| Noise Level | < 45dB | |
| **COMMUNICATIONS & MANAGEMENT** | | |
| Interface | USB and RS-232 as standard, Intelligent slot for PSSNMP, PSModbus or PSAS400 dry contact | |
| Software | PowerShield NetGuard® software - supports Windows based operating system, Linux, Unix and Mac | |
| HID | Supports Windows, Apple, Linux, NAS and various industrial controllers | |
| LCD Display/Alarm | AC mode, Batt. Mode, Load Level, Input Voltage, Output Voltage, Overload, Fault, Battery Replacement, Low Batt., Batt. Time Remaining | |
| Audible Alarm | Battery Mode, Low Battery (Batt. Mode), Battery Replacement, Fault, Overload | |
| **PHYSICAL** | | |
| Standard Model — Dimension D x W x H (mm) | 397 x 145 x 220 | 455 x 145 x 220 |
| Standard Model — Weight Nett/Gross (kg) | 12.9 / 14.4 | 20.5 / 22.5 |
| **COMPLIANCE** | | |
| Safety | EN62040-1 -1 2003, IEC 60950-1 -1 | |
| EMC | EN62040-2 2006 | |
| RoHS | Directive 2011/65/EU | |

\* Product specifications are subject to change without further notice.

### Rear of Commander Tower



PSCM1100

PSCM2000