

SYNAPSE

PURE SINE WAVE UPS

600W / 1000W

- Pure sine wave output
- Smart LCD setting (frequency, charge voltage, charge current, etc)
- 3-step charging algorithm
- Built in AVR function
- Overload and short-circuit protection
- Deep discharge protection
- Cold start function
- Ideal for loadshedding inverters





The SYNAPSE pure sine wave UPS is designed to protect PC equipment and serves as a backup device in extremely hostile power environments where other UPSs simply cannot operate.

An extra wide input AVR conserves battery for added security. It also includes a multi-stage surge suppressor which can protect from surges and spikes.


Available in 600W and 1000W versions. These units are powered / charged from the utility / grid only.



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|---------------------------------------|-----------------------------------|--|--|
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| | Product Code | SYNAPSE 600 | SYNAPSE 1000 |
| Default Battery System Voltage | | 12V DC | 24V DC |
| Inverter Output | Rated Power | 600W | 1000W |
| | Surge Rating (20ms) | 1800W | 3000W |
| | Waveform | Pure sine wave | Pure sine wave |
| | Rated Output Voltage | Inverter: 230V AC (+/-2% RMS), AVR: 195V AC-245V AC | |
| | Output Frequency | 50Hz / 60Hz +/-0,2Hz | 50Hz / 60Hz +/-0,2Hz |
| | Inverter Efficiency (Peak) | >75% | >81% |
| | Bypass Efficiency | >95% | >95% |
| | Output Transfer Time | Typical: 6ms-10ms (Max.) | Typical: 6ms-10ms (Max.) |
| Battery | Minimum Start Voltage | Low Battery Voltage Cutoff +0,5V | Low Battery Voltage Cutoff +0,5V |
| | Low Battery Alarm | Low Battery Voltage Cutoff +0,5V | Low Battery Voltage Cutoff +1V |
| | Low Battery Cutoff | 10-12V DC | 20-24V DC |
| | High Battery Cutoff | Nominal Voltage +0,5V | Nominal Voltage +1V |
| AC Charge | Floating Voltage | 13,5 / 13,6 / 13,7V DC | 27 / 27,2 / 27,4V DC |
| | Nominal Voltage | 13,8-14,5V | 27,6-29V |
| | Maximum Charge Current | 600W | 1000W |
| | | 20A | 15A |

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|---------------------------------|--|---|-------------------|
| Bypass & Protection | Input Waveform | Pure sine wave | Pure sine wave |
| | Input Frequency | 50Hz or 60Hz | 50Hz or 60Hz |
| | Low Frequency Trip | 45+ / -0,2Hz | 45+ / -0,2Hz |
| | Low Frequency Trip | 65+ / -0,2Hz | 65+ / -0,2Hz |
| | Overload Protection | 110%–125% R Load fault after 30s, 125%–150% R Load fault after 3s, >150% R Load fault after 500ms | |
| | Over Temperature Protection | >90°C | >90°C |
| | Bypass Output Protection | 10A 250V AC | 10A 250V AC |
| | Output Circuit protection | YES | YES |
| Mechanical Specification | Dimensions | 385 x 325 x 190mm | 385 x 325 x 190mm |
| | | 3000W | 1000W |
| | (N.W) kg | 8kg | 13,5kg |
| | Shipping Dimensions (W x H x D) | 420 x 385 x 225mm | 420 x 385 x 225mm |

| Accessories Battery Boxes | | |
|----------------------------------|------------------------------|--|
| Product Code | Description |  |
| SYNAPSE-C1 | Battery box for 1x 12V 100AH | |
| SYNAPSE-C2 | Battery box for 2x 12V 100AH | |
| | | |

| Synapse Kits | | | | |
|---|--------------------------------------|----------|--------------------------|---|
| Product Code | Description | Battery | Approximate Backup Time* |  |
| SYNAPSE-600-KIT1 | Synapse 600W 12V UPS Trolley System | 1x 100Ah | 1.5–10 Hours | |
| SYNAPSE-1000-KIT2 | Synapse 1000W 24V UPS Trolley System | 2x 100Ah | 2–20 Hours | |
| *Backup times are dependent on power consumption and will vary. | | | | |

| Cape Town | Johannesburg | Port Elizabeth | East London | Namibia | Durban |
|------------------------|------------------------|-----------------------|-----------------------|----------------------------|------------------------|
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