

EnergyPRO+ Tower



- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Adjustable battery numbers
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Comprehensive display allows easy monitoring and access of UPS status

EnergyPRO+ Tower Online UPS Selection Guide

| MODEL | | EnergyPRO+ 1K (L) | | EnergyPRO+ 2K (L) | | EnergyPRO+ 3K (L) | | EnergyPRO+ 6K (L) | | EnergyPRO+ 10K (L) | |
|--------------------------------------|---------------------------|---|--------------|-------------------|-----------------|-------------------|-----------------|---|--|------------------------------------|--|
| PHASE | | Single phase with ground | | | | | | | | | |
| CAPACITY * | | 1000 VA / 900 W | | 2000 VA / 1800 W | | 3000 VA / 2700 W | | 6000VA / 5400W | | 10000 VA / 9000 W | |
| INPUT | | | | | | | | | | | |
| Nominal Voltage | | 110/115/120/127VAC or 208/220/230/240VAC | | | | | | 208/220/230/240VAC | | | |
| Input Voltage Range | | 60-145 VAC or 120-300 VAC (Based on load at 50%) 90-145 VAC or 180-300 VAC (Based on load at 100%) | | | | | | 110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%) | | | |
| Frequency Range | | 40 Hz ~ 70 Hz | | | | | | 46~54 Hz or 56~64 Hz | | | |
| Power Factor | | ≥ 0.99 @ Nominall Voltage (100% load) | | | | | | | | | |
| OUTPUT | | | | | | | | | | | |
| Output Voltage | | 110/115/120/127VAC or 208/220/230/240VAC | | | | | | 208/220/230/240VAC | | | |
| Voltage Regulation | | ± 1 % | | | | | | | | | |
| Frequency Range (Synchronized Range) | | 47~ 53 Hz or 57 ~ 63 Hz | | | | | | 46~54 Hz or 56~64 Hz | | | |
| Frequency Range (Batt. Mode) | | 50 Hz or 60Hz ± 0.5% | | | | | | 50 Hz or 60Hz ± 0.1 Hz | | | |
| Current Crest Ratio | | 3:1 | | | | | | | | | |
| Harmonic Distortion | | ≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load) | | | | | | ≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load) | | | |
| Transfer Time | AC Mode to Battery Mode | Zero | | | | | | | | | |
| | Inverter to Bypass | 4 ms (Typical) | | | | | | Zero | | | |
| Waveform (Batt. Mode) | | Pure Sinewave | | | | | | | | | |
| EFFICIENCY | | | | | | | | | | | |
| AC Mode | | 88% | | 89% | | 90% | | 92% | | 93% | |
| Battery Mode | | 83% | | 87% | | 88% | | 90% | | 91% | |
| BATTERY | | | | | | | | | | | |
| Standard Model | Battery Type | 12 V / 9 Ah | | 12 V / 9 Ah | | 12 V / 9 Ah | | 12 V / 9 Ah | | | |
| | Numbers | 2 | 3 | 4 | 6 | 6 | 16 | 20 | 16 | 20 | |
| | Typical Recharge Time | 4 hours recover to 90% capacity | | | | | | 9 hours recover to 90% capacity | | | |
| | Charging Current (max.) | 1 A | | | | | | 1 A / 2 A | | | |
| Long-run Model ** | Charging Voltage | 27.4VDC ± 1% | 41.0VDC ± 1% | 54.7VDC ±1% | 82.1 VDC ±1% | 82.1 VDC ±1% | 218.4 VDC±1% | 273VDC ±1% | 218.4 VDC±1% | 273VDC ±1% | |
| | Battery Type | Depending on applications | | | | | | | | | |
| | Numbers | 2 | 3 | 4 | 6 | 8 | 6 | 8 | 16 ~ 20 (Adjustable) | | |
| | Charging Current (max.) | 1.0A/2.0A/4.0A/6.0 A | | | | | | 1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries) | | | |
| Long-run Model ** | Charging Voltage | 27.4VDC±1% | 41.0VDC ± 1% | 54.7VDC ±1% | 82.1 VDC ±1% | 109.4VDC ±1% | 82.1 VDC ±1% | 109.4VDC ±1% | 273 VDC ±1% (Based on 20pcs batteries) | | |
| | | | | | | | | | | | |
| INDICATORS | | | | | | | | | | | |
| LCD | | Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators | | | | | | | | | |
| ALARM | | | | | | | | | | | |
| Battery Mode | | Sounding every 4 seconds | | | | | | | | | |
| Low Battery | | Sounding every second | | | | | | | | | |
| Overload | | Sounding twice every second | | | | | | | | | |
| Fault | | Continuously sounding | | | | | | | | | |
| PHYSICAL | | | | | | | | | | | |
| Standard Model | Dimension, D x W x H (mm) | 282x145 x220 | 397x145 x220 | 397 x 145 x 220 | 421 x 190 x 318 | 421 x 190 x 318 | 369 x 190 x 688 | 442 x 190 x 688 | | | |
| | Net Weight (kgs) | 9.8 | 11.4 | 17 | 26.2 | 27.6 | 61 | 74 | 66 | 76 | |
| Long-run Model ** | Dimension, D x W x H (mm) | 282 x 145 x 220 | | | 397 x 145 x 220 | | 369 x 190 x 318 | | 442 x 190 x 318 | | |
| | Net Weight (kgs) | 4.1 | 4.4 | 6.8 | 6.8 | 7.6 | 7.8 | 12 | 16 | | |
| ENVIRONMENT | | | | | | | | | | | |
| Humidity | | 20-90 % RH @ 0- 40°C (Non-condensing) | | | | | | 0-95% RH @ 0-50°C (non-condensing) | | 0-95% RH @ 0-40°C (non-condensing) | |
| Noise Level | | Less than 50dB @ 1 Meter | | | | | | Less than 55dB @ 1 Meter | | Less than 58dB @ 1 Meter | |
| MANAGEMENT | | | | | | | | | | | |
| Smart RS-232 / USB | | Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC | | | | | | | | | |
| Optional SNMP | | Power management from SNMP manager and web browser | | | | | | | | | |

*1-3KVA: Derate to 70% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAC

6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC

**Long-run model is only available in 208/220/230/240VAC systems.

Product specifications are subject to change without further notice.

EnergyPRO⁺ Rack Tower



- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage range
- Converter mode available
- ECO mode for energy saving only available for 1-3K models
- Generator compatible
- Adjustable charging current via LCD or software (1A~6A)
- Emergency power off function (EPO) only available for 6K/10K models
- Comprehensive display allows easy monitoring and access of UPS status

EnergyPRO⁺ Rack Tower Online UPS Selection Guide

| MODEL | | EnergyPRO ⁺ 1KR(L) | | EnergyPRO ⁺ 2KR(L) | | EnergyPRO ⁺ 3KR(L) | | EnergyPRO ⁺ 6KR(L) | | EnergyPRO ⁺ 10KR (L) | |
|--------------------------------------|---------------------------|---|----------------|-------------------------------|---------------|-------------------------------|---------------|---|---|---|----------------------------------|
| PHASE | | Single phase with ground | | | | | | | | | |
| CAPACITY * | | 1000 VA / 900 W | | 2000 VA / 1800 W | | 3000 VA / 2700 W | | 6000VA / 5400W | | 10000 VA / 9000 W | |
| INPUT | | | | | | | | | | | |
| Nominal Voltage | | 110/115/120/127VAC or 208/220/230/240VAC | | | | | | 208/220/230/240VAC | | | |
| Input Voltage Range | | 60-145 VAC or 120-300 VAC (Based on load at 50%) 90-145 VAC or 180-300 VAC (Based on load at 100%) | | | | | | 110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%) | | | |
| Frequency Range | | 40 Hz ~ 70 Hz | | | | | | 46~54 Hz or 56~64 Hz | | | |
| Power Factor | | ≥ 0.99 @ Nominall Voltage (100% load) | | | | | | | | | |
| OUTPUT | | | | | | | | | | | |
| Output Voltage | | 110/115/120/127VAC or 208/220/230/240VAC | | | | | | 208/220/230/240VAC | | | |
| Voltage Regulation | | ± 1 % | | | | | | | | | |
| Frequency Range (Synchronized Range) | | 47~ 53 Hz or 57 ~ 63 Hz | | | | | | 46Hz ~ 54 Hz or 56Hz ~ 64 Hz | | | |
| Frequency Range (Batt. Mode) | | 50 Hz or 60Hz ± 0.5% | | | | | | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz | | | |
| Current Crest Ratio | | 3:1 | | | | | | | | | |
| Harmonic Distortion | | ≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load) | | | | | | ≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load) | | | |
| Transfer Time | AC Mode to Battery Mode | Zero | | | | | | 0 ms | | | |
| | Inverter to Bypass | 4 ms (Typical) | | | | | | 0 ms | | | |
| Waveform (Batt. Mode) | | Pure Sinewave | | | | | | | | | |
| EFFICIENCY | | | | | | | | | | | |
| AC Mode | | 88% | | 89% | | 90% | | 92% | | 93% | |
| Battery Mode | | 83% | | 87% | | 88% | | 90% | | 91% | |
| BATTERY | | | | | | | | | | | |
| Standard Model | Battery Type | 12 V / 9 Ah | | 12 V / 9 Ah | | 12 V / 9 Ah | | 12 V / 9 Ah | | | |
| | Numbers | 2 | 3 | 4 | | 6 | | 16 | 20 | 16 | 20 |
| | Typical Recharge Time | 4 hours recover to 90% capacity | | | | | | 9 hours recover to 90% capacity | | | |
| | Charging Current (max.) | 1 A | | | | | | 1A/2A (Adjustable) | | | |
| Long-run Model ** | Charging Voltage | 27.4VDC ± 1% | 41.0VDC ± 1% | 54.7 VDC ± 1% | | 82.1 VDC ± 1% | | 218.4 VDC±1% | 273VDC ± 1% | 218.4 VDC±1% | 273VDC ± 1% |
| | Battery Type | Depending on applications | | | | | | | | | |
| | Numbers | 2 | 3 | 4 | 6 | 8 | 6 | 8 | 16 ~ 20 (Adjustable) | | |
| | Charging Current (max.) | 1.0A/2.0A/4.0A/6.0 A | | | | | | 1A/2A/4A/6A (Adjustable, 6A is only available for 16 pcs batteries) | | | |
| | Charging Voltage | 27.4VDC±1% | 41.0VDC ± 1% | 54.7 VDC ± 1% | 82.1 VDC ± 1% | 109.4VDC ± 1% | 82.1 VDC ± 1% | 109.4VDC ± 1% | 218.4 VDC ± 1% (Based on 16 pcs batteries) | | |
| INDICATORS | | | | | | | | | | | |
| LCD | | Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators | | | | | | | | | |
| ALARM | | | | | | | | | | | |
| Battery Mode | | Sounding every 4 seconds | | | | | | | | | |
| Low Battery | | Sounding every second | | | | | | | | | |
| Overload | | Sounding twice every second | | | | | | | | | |
| Fault | | Continuously sounding | | | | | | | | | |
| PHYSICAL | | | | | | | | | | | |
| Standard Model | Dimension, D x W x H (mm) | 310 x 438 x 88 | 410 x 438 x 88 | | | 630 x 438 x 88 | | UPS Unit: 500x438x88 [2U] Battery Pack: 668x438x88 [2U] | UPS Unit: 500x438x88 [2U] Battery Pack: 580x438x133 [3U] | UPS Unit: 580x438x133[3U] Battery Pack: 580x438x133 [3U] | |
| | Net Weight (kgs) | 12 | 14.1 | 19 | | 29.3 | | UPS Unit: 15 Battery Pack: 48 | UPS Unit: 15 Battery Pack: 61 | UPS Unit: 18 Battery Pack: 51 | UPS Unit: 18 Battery Pack: 61 |
| Long-run Model ** | Dimension, D x W x H (mm) | 310 x 438 x 88 | | 410 x 438 x 88 | | 460 x 438 x 88 | | 500 x 438 x 88 [2U] | | 580 x 438 x 133[3U] | |
| | Net Weight (kgs) | 9 | | 12 | | 14.2 | | 15 | | 18 | |
| ENVIRONMENT | | | | | | | | | | | |
| Humidity | | 20-90 % RH @ 0- 40°C (Non-condensing) | | | | | | 0-95% RH @ 0-40°C (non-condensing) | | | |
| Noise Level | | Less than 50dB @ 1 Meter | | | | | | Less than 55dB @ 1 Meter | | Less than 58dB @ 1 Meter | |
| MANAGEMENT | | | | | | | | | | | |
| Smart RS-232 / USB | | Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC | | | | | | | | | |
| Optional SNMP | | Power management from SNMP manager and web browser | | | | | | | | | |

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