



OTIMA PLUS



- True double-conversion
- Wide input voltage range (110-300 VAC)
- Input power factor correction 0.99
- Output power factor 0.8
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- ECO mode operation for energy saving (ECO)
- SNMP+USB+RS-232 multiple communications
- Smart battery charger design for optimized battery performance
- Selectable output voltage via LCD panel
- Optional isolation transformer offers full isolation and complete common mode noise rejection
- Hot-swappable battery design

S E R V I S E

OTIMA PLUS 1KVA/1.5KVA/2KVA/3KVA Online UPS Selection Guide

| MODEL | | OTIMA PLUS 1K (L) | | OTIMA PLUS 1.5K (L) | | OTIMA PLUS 2K (L) | | OTIMA PLUS 3K (L) | |
|--------------------------------------|---------------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| PHASE | | Single phase with ground | | | | | | | |
| CAPACITY | | 1000 VA / 800 W | | 1500 VA / 1200W | | 2000 VA / 1600 W | | 3000 VA / 2400 W | |
| INPUT | | | | | | | | | |
| Nominal Voltage | | 100/110/115/120/127 VAC or 200/208/220/230/240VAC | | | | | | | |
| Voltage Range | | 50 - 150 VAC ± 5 % or 110 - 300 VAC ± 5 % at 50% load | | | | | | | |
| Frequency Range | | 80 - 150 VAC ± 5 % or 160 - 300 VAC ± 5 % at 100% load | | | | | | | |
| Power Factor | | 45Hz ~ 55 Hz or 56Hz ~ 65 Hz | | | | | | | |
| | | ≥ 0.99 @ Nominal Voltage (100% Load) | | | | | | | |
| OUTPUT | | | | | | | | | |
| Output Voltage | | 100/110/115/120/127 VAC or 200/208/220/230/240VAC | | | | | | | |
| AC Voltage Regulation (Batt. Mode) | | ± 1% | | | | | | | |
| Frequency Range (Synchronized Range) | | 48 ~ 52 Hz or 58 ~ 62 Hz | | | | | | | |
| Frequency Range (Batt. Mode) | | 50 Hz ± 0.2 Hz or 60Hz ± 0.2 Hz | | | | | | | |
| Current Crest Ratio | | 3:1 | | | | | | | |
| Harmonic Distortion | | ≤ 3 % THD (Linear Load), ≤ 6 % (Non-Linear load) | | | | | | | |
| Transfer Time | AC Mode to Batt. Mode | Zero | | | | | | | |
| | Inverter to Bypass | 4 ms (Typical) | | | | | | | |
| Waveform (Batt. Mode) | | Pure Sinewave | | | | | | | |
| EFFICIENCY | | | | | | | | | |
| AC Mode | | 86% | | 87% | | 87% | | 88% | |
| Battery Mode | | 84% | | 85% | | 85% | | 86% | |
| BATTERY | | | | | | | | | |
| Standard Model | Battery Type | 12V/9Ah | 12V/7Ah | 12V/9Ah | 12V/9Ah | 12V/7Ah | 12V/9Ah | | |
| | Numbers | 2 | 3* | 3 | 4 | 6* | 6 | | |
| | Typical Recharge Time | 4 hours recover to 90% capacity | | | | | | | |
| | C charging Current (max.) | 1.0 A | | | | | | | |
| | Charging Voltage | 27.4 VDC ± 1% | 41.1 VDC ± 1% | 41.1 VDC ± 1% | 54.8 VDC ± 1% | 82.1 VDC ± 1% | 82.1 VDC ± 1% | 82.1 VDC ± 1% | |
| Long-run Model | Battery Type | Depending on the capacity of external batteries | | | | | | | |
| | Numbers | | | | | | | | |
| | Charging Current (max.) | 1A / 2A / 4A / 8A | | | | | | | |
| | Charging Voltage | 27.4 VDC ± 1% | 41.1 VDC ± 1% | 41.1 VDC ± 1% | 54.8 VDC ± 1% | 82.1 VDC ± 1% | 82.1 VDC ± 1% | 82.1 VDC ± 1% | |
| INDICATORS | | | | | | | | | |
| LCD Panel | | UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions | | | | | | | |
| 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) | 380 x 438 x 88 [2U] | 480 x 438 x 88 [2U] | 480 x 438 x 88 [2U] | 480 x 438 x 88 [2U] | 600 x 438 x 88 [2U] | 600 x 438 x 88 [2U] | 600 x 438 x 88 [2U] | |
| | Net Weight (kgs) | 13.2 | 18.4 | 18.5 | 20.6 | 25.7 | 29 | | |
| Long-run Model | Dimension, D x W x H (mm) | 380 x 438 x 88 [2U] | 480 x 438 x 88 [2U] | 480 x 438 x 88 [2U] | 480 x 438 x 88 [2U] | 600 x 438 x 88 [2U] | 600 x 438 x 88 [2U] | 600 x 438 x 88 [2U] | |
| | Net Weight (kgs) | 9.1 | 11.3 | 10.7 | 11.3 | 14.6 | 14.8 | | |
| ENVIRONMENT | | | | | | | | | |
| Humidity | | 20-90 % RH @ 0- 40°C (Non-condensing) | | | | | | | |
| Noise Level | | Less than 50dB @ 1 Meter | | | | | | | |
| MANAGEMENT | | | | | | | | | |
| Smart RS-232/USB | | Supports Windows®2000/2003/XP/Vista/2008, Windows®7/8, Linux, Unix, and MAC | | | | | | | |
| Optional SNMP | | Power management from SNMP manager and web browser | | | | | | | |

*In LV system, only 12V/7Ah x 3 for 1K model and 12V/7Ah x 6 for 2K model are available.
 NOTE 1: Derate to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC.
 NOTE 2: If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.
 ** L means long-run model