

PRIME PLUS

1-10kVA ONLINE UPS

Smart single-phase ON-LINE UPS with full digital control, zero transfer time, pure sine wave output and high efficiency with Power Factor = 1. The Prime Plus UPS do not require electrical installation as they support plug and play (1-3kVA) and have enhanced charger installed that supports scalable runtime. They also support Rack / Tower layout configuration and can protect professional and lightweight industrial applications.



1 phase in / 1 phase out



ENHANCED POWER PROTECTION



TELECOM



SERVERS



RACK
SERVERS



LIGHT
INDUSTRY



SECURITY



OFFICE
COMPUTERS



NAVAL
ELECTRONICS



MEDICAL
APPLICATIONS

GENERAL SPECIFICATIONS

- True double-conversion technology
- High flexibility with Rack or Tower mounting
- Output power factor 1
- Output voltage regulation < 1%
- Higher output crest ratio 3:1
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- ECO mode for energy saving
- Provides over voltage cut-off protection and surge immunity by MOV for ongoing equipment protection
- High power factor charger up to 1000W capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Generator compatible
- Cold Start
- Auto Restart

PRIME PLUS

ONLINE UPS *1 phase in / 1 phase out* 1-3 kVA



| MODEL | Prime Plus 1101 SRT | Prime Plus 1101.5 | Prime Plus 1102 SRT | Prime Plus 1103 SRT |
|--|---|-------------------|-----------------------------------|-----------------------------------|
| TESCOM MODEL | UPS.0538 | UPS.0507 | UPS.0539 | UPS.0509 |
| PHASE | Single phase with ground | | | |
| CAPACITY | 1000 VA / 1000 W | 1500VA / 1500 W | 2000 VA / 2000 W | 3000 VA / 3000 W |
| INPUT | | | | |
| Nominal Voltage | 200/208/220/230/240 VAC | | | |
| Voltage Range | 110-300 VAC \pm 5% @ 50% load 160-300 VAC \pm 5% @ 100% load | | | |
| Frequency Range | 40Hz ~ 70Hz | | | |
| Harmonic Distortion(THDi) | \leq 5% @ nominal input voltage | | | |
| Power Factor | \geq 0.99 @ nominal voltage (100% load) | | | |
| OUTPUT | | | | |
| Output Voltage | 200*/208*/220/230/240 VAC | | | |
| AC Voltage Regulation (Batt. Mode) | \pm 1% | | | |
| Frequency Range (Synchronized Range) | 57 ~ 63 Hz or 47 ~ 53 Hz | | | |
| Frequency Range (Batt. Mode) | 50 Hz \pm 0.1Hz or 60Hz \pm 0.1Hz | | | |
| Current Crest Ratio | 3:1 (max.) | | | |
| Harmonic Distortion | \leq 2 % THD (Linear Load); \leq 4 % THD (Non-linear load) | | | |
| Transfer Time | AC mode to Battery mode | Zero | | |
| | Inverter to Bypass | 4 ms (Typical) | | |
| Waveform (Batt. Mode) | Pure Sinewave | | | |
| Overload AC mode | 110-130% : 5 min / 130-140%: 30 sec / >140% : 1.5 sec to 100ms | | | |
| Outlets (Πρίζες) | 8 x IEC 320 C13 | | | 8 x IEC 320 C13 + 1 x IEC 320 C19 |
| EFFICIENCY | | | | |
| AC Mode | \geq 90% @ full charged battery | | \geq 91% @ full charged battery | |
| ECO Mode | \geq 96% @ full charged battery | | | |
| Battery Mode | \geq 88% | | \geq 90% | |
| BATTERY | | | | |
| Battery Type (VRLA) | 12 V / 9 AH | 12V / 9AH | 12 V / 9 AH | 12 V / 9 AH |
| Numbers | 2 | 3 | 4 | 6 |
| Typical Recharge Time | 3 hours recover to 95% capacity for internal battery@ 2A charging current | | | |
| Charging Current | Default 2A, max. 12A adjustable | | | |
| Charging Voltage | 27.4 VDC \pm 1% | 41 VDC \pm 1% | 54.8 VDC \pm 1% | 82.1 VDC \pm 1% |
| PHYSICAL | | | | |
| Dimension, D x W x H (mm) | 410 x 438 x 88 | | 510 x 438 x 88 | 630 x 438 x 88 |
| Net Weight (without battery) (kgs) | 6,6 | 7,8 | 9,4 | 12,4 |
| Net Weight (w/built-int battery) (kgs) | 11,6 | 14,1 | 19,5 | 27,5 |
| ENVIRONMENT | | | | |
| Humidity | 5-95 % RH @ 0- 40°C (non-condensing) | | | |
| Noise Level | Less than 50dBA @ 1 Meter | | | |
| Altitude | 10% de-rating for over 1000m (The altitude should not exceed 3000m) | | | |
| MANAGEMENT | | | | |
| Smart RS-232/USB & Software | Supports Windows® 2000/2003/ XP/ Vista/ 2008/ 7/ 8, Linux and MAC | | | |
| Optional SNMP | Power management from SNMP manager and web browser | | | |
| STANDARD | | | | |
| EMC/safety | EMC EN62040-2 C2 / EN 62040 - 1 / EN 62040 – 3 / RoHS 2 | | | |

*De-rate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.

Product specifications are subject to change without further notice

PRIME PLUS

ONLINE UPS *1 phase in / 1 phase out* 6-10 kVA



| MODEL | Prime Plus 1106 SRT | Prime Plus 1110 SRT | Prime Plus 1106 SRT XL | Prime Plus 1110 SRT XL |
|--------------------------------------|--|--|----------------------------------|----------------------------------|
| TESCOM CODE | UPS.0516+BPC.0099 | UPS.0517+BPC.0100 | UPS.0516 | UPS.0517 |
| PHASE | 1 phase in / 1 phase out | | | |
| CAPACITY | 6000 VA / 6000 W | 10000 VA / 10000 W | 6000 VA / 6000 W | 10000 VA / 10000 W |
| INPUT | | | | |
| Nominal Voltage | 208/220/230/240 VAC | | | |
| Voltage Range | 110~300VAC ± 3 % at 50% load 176~300VAC ± 3 % at 100% load | | | |
| Frequency Range | 46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz | | | |
| Phase | Single phase with ground | | | |
| Power Factor | ≥ 0.99 @ full load | | | |
| THDi | <4% @100% Load, <6% @50% Load | | | |
| OUTPUT | | | | |
| Output Voltage | 208*/220/230/240 VAC | | | |
| AC Voltage Regulation (Batt. Mode) | ± 1% | | | |
| Frequency Range (Synchronized Range) | 46~54 Hz @ 50 Hz / 56~64 Hz @ 60 Hz | | | |
| Frequency Range (Batt. Mode) | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz | | | |
| Current Crest Ratio | 3:1 (max.) | | | |
| Harmonic Distortion | ≤1% THD (Linear Load), ≤ 4 % THD (Non-linear Load) | | | |
| Transfer Time | AC Mode to Batt. Mode | Zero | | |
| | Inverter to Bypass | Zero | | |
| Waveform (Batt. Mode) | Pure Sinewave | | | |
| Overload | AC Mode | 100%~110%: 10min / 110%~130%: 1min / >130% : 1sec | | |
| | Battery Mode | 100%~110%: 30sec / 110%~130%: 10sec / >130% : 1sec | | |
| EFFICIENCY | | | | |
| AC Mode | 94% | | 94% | |
| ECO Mode | 98,5% | | 98,5% | |
| Battery Mode | 92% | | 92% | |
| BATTERY | | | | |
| Standard Model | Battery Type VRLA | 12 V / 7 AH | 12 V / 9 AH | Depending on applications |
| | Numbers | 20 | 20 | 16-20** |
| Long Run Model | Typical Recharge Time | 9 hours recover to 90% capacity | | |
| | Charging Current (max.) | 1.0 A | | 4.0 A |
| | Charging Voltage | 218.4 VDC ± 1% | | (13.65VDC x battery number) ± 1% |
| PHYSICAL | | | | |
| Standard Model | Dimension, D x W x H (mm) | UPS Unit: 610x438x88 [2U] Battery Pack: D=584 x W=438 x H=132 mm [3U] | | 610 x 438 x 88 [2U] |
| Long Run Model | Net Weight (kgs) | UPS Unit: 17 Battery Pack: 60 | UPS Unit: 20 Battery Pack: 66 | 17 20 |
| ENVIRONMENT | | | | |
| Operation Humidity | <95 % RH @ 0- 40°C (non-condensing) | | | |
| Noise Level | Less than 55dBa @ 1 Meter | Less than 58dB @ 1 Meter | Less than 55dBa @ 1 Meter | Less than 58dB @ 1 Meter |
| MANAGEMENT | | | | |
| Smart RS-232/USB & Software | Supports Windows® 2000/ 2003/ XP/ Vista / 2008, Windows® 7/8, Linux, Unix, and MAC | | | |
| Optional SNMP | Power management from SNMP manager and web browser | | | |
| STANDARD | | | | |
| EMC/safety | EMC EN62040-2 C2 / EN 62040 - 1 / EN 62040 – 3 / RoHS 2 | | | |

* De-rate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

**When using 16 pieces of batteries, the output power factor will be de-rated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be de-rated to 0.9

***If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be de-rated one percent per 100m.

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