PRIME PLUS

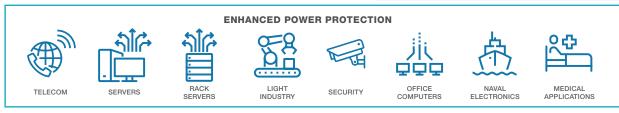
1-10kVA ONLINE UPS

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



v Tescom



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 cutt-off protection and surge immunity by MOV for ongoing equipment protection

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- 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



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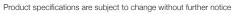
PRIME PLUS

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							
PHASE	UPS.0538 UPS.0507 UPS.0539 UPS.0509						
CAPACITY	Single phase with ground 1000 VA / 1000 W 1500VA / 1500 W 2000 VA / 2000 W 3000 VA / 3000 W						
INPUT	1000 VA / 1000 W	1300VA7 1300 W	2000 VA / 2000 W	3000 VA 7 3000 W			
Nominal Voltage		200/208/220/230)/240 \/ΔC				
	200/208/220/230/240 VAC						
Voltage Range	110-300 VAC ± 5% @ 50% load 160-300 VAC ± 5% @ 100% load						
Frequency Range	40Hz ~ 70Hz						
Harmonic Distortion(THDi)	$\leq 5\%$ @ nominal input voltage						
Power Factor	≥ 0.99 @ nominal voltage (100% load)						
OUTPUT							
Output Voltage		200*/208*/220/23	0/240 VAC				
AC Voltage Regulation (Batt. Mode)	± 1%						
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz						
Frequency Range (Batt. Mode)	$50 \text{ Hz} \pm 0.1\text{Hz} \pm 0.1\text{Hz}$						
Current Crest Ratio	3:1 (max.)						
Harmonic Distortion	\leq 2 % THD (Linear Load); \leq 4 % THD (Non-linear load)						
Transfer AC mode to Battery mode	Zero						
Time 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 IE 320 C19						
EFFICIENCY							
AC Mode	\ge 90% @ full charged battery \ge 91% @ full charged battery						
ECO Mode	≥ 96% @ full charged battery						
Battery Mode	≥ 88% ≥ 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 ± 1%	41 VDC ± 1%	54.8 VDC ±1%	82.1 VDC ±1%			
PHYSICAL							
Dimension, D x W x H (mm)	410 x 43	8 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							

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





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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	•			
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 Range)	(Synchronized	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 Rat	io		3:1 (n	nax.)			
Harmonic Distorti	ion						
T	AC Mode to Batt. Mode	≤1% THD (Linear Load), ≤ 4 % THD (Non-linear Load) Zero					
Transfer Time	Inverter to Bypass	Zero					
Waveform (Batt. I	Mode)	Pure Sinewave					
	AC Mode	100%~110%: 10min / 110%~130%: 1min / >130% : 1sec					
Overload	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				1			
	Battery Type VRLA	12 V / 7 AH	12 V / 9 AH	Depending on applications			
	Numbers	20	20	16-20**			
Standard Model	Typical Recharge Time	9 hours recover to 90% capacity					
- Long Run Model	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/US	B & Software	Supports	Windows® 2000/ 2003/ XP/ Vista /	2008, Windows® 7/8, Linux, Unix, a	Ind 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			
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* 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.

Product specifications are subject to change without further notice



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