

MARUSON[®]

UPS SYSTEMS

Ultima Plus Series



ULT-P2K / P3K

ULT-P1K / P1.5K

OPTIONAL



MBS-123TW

FEATURES

- True double-conversion technology
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 1.0
- Programmable power management outlets
- High power factor charger with very low ripple current
- Emergency Power Off (EPO) function
- Intelligent communication slot enables remote monitoring
- Comprehensive display allows easy monitoring and access of UPS status
- ECO mode for energy saving
- Frequency converter mode available
- Generator compatible
- External PDU / maintenance bypass switch (optional)

APPLICATIONS

- Office Equipment
- Server Rooms
- Medical Equipment
- Telecom & Networking



ULTIMA PLUS ON-LINE UPS SPECIFICATION

MODEL	ULT-P1K	ULT-P1.5K	ULT-P2K	ULT-P3K
Capacity	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
INPUT				
Voltage	200 / 208 / 220 / 230 / 240 VAC			
Voltage Range	160 ~ 300 VAC at 100% load; 110 ~ 300 VAC at 50% load			
Frequency Range	40 Hz ~ 70 Hz			
Power Factor / THDi	≥ 0.99 @ nominal voltage (100% load) / THDi ≤ 5%			
OUTPUT				
Voltage	200 / 208 / 220 / 230 / 240 VAC			
Frequency Range	47 ~ 53 Hz or 57 ~ 63 Hz (synchronized range)			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz			
Current Crest Ratio	3:1			
Harmonic Distortion	≤ 2% THD (linear load) / ≤ 4% THD (non-linear load)			
Transfer Time	Zero (AC mode to battery mode), typical 4ms (inverter to bypass)			
EFFICIENCY				
AC Mode @ battery fully charged	≥ 89%	≥ 89%	≥ 91%	≥ 91%
Battery Mode	≥ 88%	≥ 88%	≥ 90%	≥ 90%
BATTERY				
Type & Number	12 V / 9 Ah x 2(Optional 7 Ah x 3)	12 V / 9 Ah x 3	12 V / 9 Ah x 4(Optional 7 Ah x 6)	12V / 9Ah x 6
Typical Recharge Time	3 hours recover to 95% capacity for 2 A charging current			
Charging Current (Max.)	Default 2.0 A, Max. 12.0 A adjustable		Default 2.0 A, Max. 8.0 A adjustable	
Charging Voltage	27.4VDC ±1%(Optional 41.1VDC)	41.1 VDC ± 1%	54.8VDC ±1%Optional 82.1VDC)	82.1 VDC ± 1%
INDICATOR				
LCD Display	Load level, battery level, AC mode, battery mode, bypass mode, and fault indicators			
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10 / Linux / Unix / Mac OS®			
Optional SNMP	Power management from SNMP manager and web browser			
PHYSICAL				
Dimension (D x W x H) (mm / in)	397 x 145 x 220 / 15.6 x 5.7 x 8.7	397 x 145 x 220 / 15.6 x 5.7 x 8.7	421 x 190 x 318 / 16.6 x 7.5 x 12.5	421 x 190 x 318 / 16.6 x 7.5 x 12.5
Net Weight (kg / lb)	6.6 / 14.6 (w/o batteries) 11.7 / 25.8 (w/ batteries)	7 / 15.4 (w/o batteries) 14.6 / 32.2 (w/ batteries)	9.9 / 21.8 (w/o batteries) 20.3 / 44.8 (w/ batteries)	12.3 / 27.1 (w/o batteries) 28 / 61.7 (w/ batteries)

Note: Derate capacity to 80% when the output voltage is adjusted to 200 / 208 VAC.

Product specifications are subject to change without further notice.

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Ultima Plus Series



FEATURES

- Online double conversion technology
- DSP technology guarantees high performance
- Pure sine wave output
- 1.0 output power factor
- High efficiency up to 94%
- 3-Stage extendable charging design for optimized battery performance
- Generator compatible
- Wide input voltage range (110 ~ 300 VAC)
- 0.99 active input power factor correction
- 50 / 60 Hz frequency converter mode
- Emergency Power Off (EPO) function
- Build-in maintenance bypass switch
- Optional N + X parallel redundancy up to 3 units
- Optional OVCD (over voltage cut-off device) protection

APPLICATIONS

- Server Rooms
- Telecom & Networking
- Automation Equipment
- Office Equipment



ULTIMA PLUS ON-LINE UPS SPECIFICATION

MODEL	ULT-P6K	ULT-P6KL	ULT-P10K	ULT-P10KL
Capacity	6000 VA / 6000 W		10000 VA / 10000 W	
INPUT				
Nominal Voltage	208 / 220 / 230 / 240 VAC			
Voltage Range	176 ~ 300 VAC at 100% load ; 110 ~ 300 VAC at 50% load			
Frequency Range	46 ~ 54 Hz or 56 ~ 64 Hz			
Power Factor	≥ 0.99 @ 100% load			
OUTPUT				
Voltage	208 / 220 / 230 / 240 VAC			
Current Crest Ratio	3:1(max.)			
Harmonic Distortion	≤ 1% THD (linear load)	≤ 1% THD (linear load)	≤ 1% THD (linear load)	≤ 1% THD (linear load)
Transfer Time	Zero			
EFFICIENCY				
Line Mode	94%			
Battery Mode	91%			
BATTERY				
Battery Type	12 V / 7 Ah(Optional 12V / 9 Ah)	Depending on applications	12 V / 9 Ah	Depending on applications
Numbers	16 pcs	16 ~ 20 (Programmable)	16 pcs	16 ~ 20 (Programmable)
Typical Recharge Time	8 hours recover to 90% capacity	Depending on ext. Batt. Capacity	8 hours recover to 90% capacity	Depending on ext. Batt. Capacity
Charging Current	Max. 1.0 A	Max. 4.0 A	Max. 1.0 A	Max. 4.0 A
Float Charging Voltage	218.4 VDC ±1%	273 VDC ±1% (Based on 20 pcs batteries)	218.4 VDC ±1%	273 VDC ±1% (Based on 20 pcs batteries)
INDICATOR				
LCD Panel	UPS status, load level, battery level, input / output voltage, discharge timer, and fault conditions			
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10, Linux, Unix and Mac OS®			
Optional SNMP	Power management from SNMP manager and web browser			
PHYSICAL				
Dimension (D x W x H) (mm / in)	369 x 190 x 688 / 14.5 x 7.5 x 27.1	369 x 190 x 318 / 14.5 x 7.5 x 12.5	442 x 190 x 688 / 17.4 x 7.5 x 27.1	442 x 190 x 318 / 17.4 x 7.5 x 12.5
Net Weight (kg / lb)	54 / 119.1	13 / 28.7	66 / 145.5	16 / 35.3

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