

# MAX LiFe SERIES

ONLINE UPS FOR LITHIUM-ION BATTERY APPLICATIONS FOR LONGER BACKUP

1KVA / 2KVA / 3KVA / 5KVA

Online UPS Models  
For Lithium-ion Battery Applications

## FEATURES (1KVA & 2KVA):

- Microprocessor Control optimizes Reliability
- Comprehensive Display allows easy monitoring and access of UPS status
- Emergency Power Off (EPO) function
- ECO mode and High Efficiency Power Conversion for Energy Saving
- Advanced Battery Management (ABM)
- High Power Factor charger upto 1000W capacity with very Low Ripple Current when Charging Battery
- Lithium-ion Battery Compatible
- Low Input THDi(5%) to reduce power system pollution



## FEATURES (3KVA & 5KVA):

- Sine-wave Output
- Unity Power Factor
- Configurable Charging Current via LCD Settings
- Cold Start Capability
- Very Powerful AC Charger at 60A
- Optional Parallel Operation up to 9 units for Single Phase and Three Phase Applications
- Common 48V DC Battery Pack for the Parallel System
- Full Bridge inverter design to support half-wave load and unbalanced load

## BENEFITS:

- True double-conversion
- Generator Compatible
- Wide Input Range
- Overload & Short-circuit Protection

## TECHNICAL SPECIFICATIONS

MODEL	MAX Life ONLINE UPS 1KVA	MAX Life ONLINE UPS 2KVA	MAX Life ONLINE UPS 3KVA	MAX Life ONLINE UPS 5KVA
<b>INPUT</b>				
<b>CAPACITY</b>	<b>1000VA / 900W</b>	<b>2000VA / 1800W</b>	<b>3000VA / 3000W</b>	<b>5000VA / 5000W</b>
VOLTAGE RANGE	110-280 VAC@50%Load ; 176-280 VAC @100% Load			
PHASE	Single Phase with Ground			
FREQUENCY RANGE	40Hz ~ 70Hz		46Hz ~ 54Hz	56Hz ~ 64Hz
POWER FACTOR	≥ 0.99			
INPUT CURRENT HARMONIC DISTORTION THD(i)	5% @ 205-245VAC		8%	
<b>OUTPUT</b>				
NOMINAL VOLTAGE	200*/208*/220/230/240 VAC		220/230/240 VAC	
AC VOLTAGE REGULATION	±1% (Battery Mode)			
FREQUENCY RANGE	Synchronized Range: 50Hz System: 47~53Hz / 60Hz System: 57~63Hz		Synchronized Mode: 46Hz ~ 54Hz or 56Hz ~ 64Hz	
	Battery Mode: 50Hz±0.1% or 60 Hz±0.1%		Battery Mode: 50Hz±0.1Hz or 60Hz±0.1Hz	
CURRENT CREST RATIO	3:1 (Max)			
HARMONIC DISTORTION	≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-Linear Load)		≤ 3% THD (Linear Load) ; ≤ 5% THD (Non-Linear Load)	
TRANSFER TIME	AC to DC			
	Zero			
	Inverter to Bypass		4ms (Typical)	
WAVE FORM (Battery Mode)	Pure Sine Wave		Pure Sine Wave on AC Input Mode and 54 VDC on Battery Mode	
<b>EFFICIENCY</b>				
ON FULL CHARGED BATTERY	ECO Mode: ≥96% / AC Mode: ≥89%	ECO Mode: ≥96% / AC Mode: ≥90%	LINE Mode: 95% / ECO Mode: 99.5% / BATTERY Mode: 92.0%	
<b>BATTERY</b>				
BATT. VOLTAGE	48V			
CHARGING CURRENT (MAX.)	20A max, Current Setting through LCD panel (Adjustable: 2/4/8/10/12/14/16/20A)		60 A (Configurable 10A / 20A / 30A / 40A / 50A / 60A from LCD)	
<b>INDICATORS</b>				
LCD PANEL	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode and Fault Indicator Via LCD			
<b>PHYSICAL</b>				
DIMENSIONS PRODUCT(DxWxH)	397x145x220( in mm)	530x145x220( in mm)	465x190x318( in mm)	
NET WEIGHT PRODUCT(KGS.)	6.4Kgs.	8.6Kgs.	15.5Kgs.	
<b>ENVIRONMENT</b>				
OPERATING HUMIDITY / TEMP.	20-95% RH and Non-Condensing / 0-45°C		0 to 95% Relative Humidity (Non-Condensing) / 0-50°C	
<b>MANAGEMENT</b>				
COMMUNICATION INTERFACE	RS-232 and USB, SNMP Card / MODBUS Card (Optional)			

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

\*Product specifications are subject to change without prior notice.

\*By Default, This Product is Compatible with Lithium-Ion Battery. Need to Update Firmware if in case Usage is with Lead-Acid Battery Application.

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