

# GREENLINE SERIES

## Single Phase UPS

### On-line protection for Computer Servers

The Greenline Series is the mighty turbo in the single phase ONLINE family of uninterruptible power supplies by UNILINE Energy. The Green Line Series provides reliable & dependable protection to high-end applications and is extensively equipped to master all eventualities & contingencies.

### Green Line Series :

- True online DSP based double conversion technology with integrated Static Bypass mechanism.
- In normal operation, the Green Line Series converts the mains AC voltage into DC voltage which supplies a battery and an inverter with energy.
- The inverter generates a sine wave AC voltage which is permanently available at the output.
- If and when power problems strike, the battery delivers the required power to the inverter.
- The additional bypass system integrated into the UPS device guarantees an unprecedented level of power supply security.
- In overload conditions, the bypass system automatically switches mains power directly through to the user.
- The module design improves reliability of the UPS and also simplifies service maintenance.

### Green Line's outstanding features :

- Pure sine wave output
- LCD display design
- Microprocessor DSP control guarantees high reliability
- Adopting high frequency full bridge topology for high steady performance
- High input power factor correction
- Selectable various output range and operating mode
- Cold start function / Manual bypass / Input MCB
- Inbuilt static bypass enhances better protection for critical load
- Built-in dry contact RS-232 / EPO communication port
- SNMP allows for web-based remote monitoring & management
- IP20 Protection
- Enable to extend runtime with scalable external battery pack
- Overload, short-circuit, surge protection
- Generator compatibility
- Compact size with high overall efficiency
- Isolation Transformer (Optional)
- ECO Mode
- IGBT based rectifier & inverter



Server



Network



Security



Medical



Education

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## Single - Phase UPS

### TECHNICAL SPECIFICATIONS

	MODELS	GL 3000 VA	GL 5000 VA
POWER	CAPACITY	3 KVA / 2400W	5 KVA / 4000W
INPUT	Input System	Single Phase & Earth Ground	
	Rated Voltage	230 V AC	
	Voltage Range	160V to 300 V(100% load), 110V to 300V (50% load)	
	Frequency	40 Hz - 70 Hz	
	Power Factor	>= 0.9	
	Voltage Range of Bypass	230 V AC $\pm$ 10 % (Adjustable)	
	Output System	Single Phase & Earth Ground	
OUTPUT	Rated Voltage	220 / 230 / 240 V AC (+/-3%)	
	Power Factor	0.8	
	Waveform	Sinewave	
	Distortion	< 3%	
	Efficiency	85%	
	Frequency	47.5 – 52.5 Hz	
	Battery Mode Frequency	50 Hz + 0.1 Hz	
	Inverter Overload	<= 3% for 100% non linear load (battery mode)	
	Voltage Distortion	$\leq$ 3% for Linear Load, $\leq$ 6% for Non-Linear Load	
BATTERY	Transfer Time	0 ms (Normal mode to Battery mode), 5ms (Normal mode to Bypass mode),	
	Crest Factor	3 : 1	
	Batteries Type / Voltage	Sealed Maintenance Free batteries (VRLA) / Rated DC Voltage - 96V / 192V	
	Charge Current	2A for Internal Batteries, 6A Max. (Adjustable)	
	Backup Time	Dependent on the Capacity of Batteries (Long Backup Time)	
	Battery Charge Time	Charger to 90 % Battery Capacity in 3 Hours (Standard)	
	Interface Port(s)	RS232 + Dry Contact (DB9) + USB (Optional)	
COMMUNICATE & INTERFACE	Protection	Inbuilt for EMI / RFI Filter & Surge Suppression	
	LCD Display	Input/Output Volt., Batt. Level, UPS Status, Load Level, Fault Conditions, Discharge Timer	
	Audible Alarm	Actively Audible Alarm for Utility Failed / Battery Low / Overload Condition	
	Indicator	Load Indication, Load on Battery, Low Battery, Mains On, Overload	
	EPO	Yes	
ENVIRONMENTAL	Power Outlet	Programmable Power Management Outlet for Independent Control of Load Segment	
	Noise Level	<45dB @ 1 Meter	
	Operating Temp.	0 - 40°C(Non-Condensing)	
	Storage Temp.	-20°C ~ 55°C	
	Relative Humidity	20 ~ 90%, Non - Condensing	
Operating Elevation	2 ,000 Meters		
	Net Weight (kg) w/o Battery	6.5 / 7 / 7.5 / 12 / 13.5 / 13.5	

### OUR OTHER PRODUCTS : -

• ON LINE UPS UPTO 1800 KVA • LINE INTERACTIVE UPS UPTO 3 KVA • SOLAR ENERGY SOLITON. UPTO 1000 KVA • SERVO STABILIZER UPTO 2000 KVA



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