alpha®
Power to Innovate!
An ISO 9001:2008 Certified

PETRO SMART
UPS SYSTEM

SOLAR
STREET LIGHTS

WINDMILL
UPS

INDUSTRIAL
UPS

UPS FOR
HOSPITALS

STABILIZERS

MRI MATE
UPS SYSTEM

UPS FOR
SCHOOLS

LIFT ON
UPS FOR LIFTS

Backing You Up, Everywhere

Solutions for every industry

CNC MACHINES

ATM MACHINES

SOLAR UPS

CALL CENTERS

PETROL PUMPS

SEWING MACHINES

MRI MACHINES

IT COMPANIES

AC DC PUMPS

DENTAL CHAIR & COMPRESSORS

DATA CENTERS

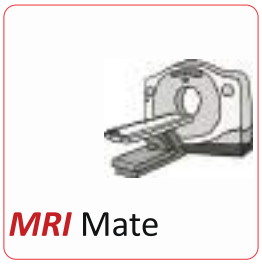
HOSPITALS

OUR SPECIALIZED PRODUCT

GYM UPS

UPS SYSTEM FOR LIFTS

UPS SYSTEM FOR PETROL PUMPS



UPS SYSTEM FOR HOSPITALS

AWARDS & CERTIFICATIONS

MEMBER OF
NSIC
Registration No.
NSIC/KAR/GP/RS/IKT/A-168/2010

NABCB
ISO 9001 :2015

Justdial
India's No.1 local search engine

STQC
Certification

Sulekha.com

EXCELLENCE AWARD

Alpha Power Solutions

Alpha Power Solutions. India's most admired power solutions provider, with a growing presence across India and throughout Karnataka. A truly knowledge driven company, with innovation at its heart, Alpha develops intelligent power back-up solutions, engineered to be energy efficient and thus reduce the users carbon footprint. Working further towards a cleaner, greener planet, we are branching out towards eco friendly inexhaustible energy solutions like solar power. We see ourselves as change agents in the critically important sphere of energy, working for a better tomorrow. With the vision spreading the greener energy faster, we also take care of bulk manufacturing and white collared production.

Overview

- Founded in 2002
- 1000 plus power product range
- Dealers across India
- Customised CRM/ERP for effective service operations & customer relationship
- 1 lakh + installations
- 1.5 Mw of solar power installations

OUR PRODUCT RANGE

Home Inverters

Online UPS

Batteries

Stabilizers

Solar UPS

Battery Rack

Wind Mill UPS

Industrial Inverters

OFFLINE SPECIFICATION

1KVA-10KVA (1:1) Ø

Capacity	**1KVA - 10KVA**
Technology	MOSFET/IGBT-PWM
Input	**Single Phase**
Voltage & Frequency	230VAC +/-20% 50Hz +/-5%
Output	**Single Phase**
Voltage & Frequency	230VAC +/-5% 50Hz +/-1%
Waveform	Pure Sine Wave
Power Factor	0.98
Efficiency	>80% Over all
Battery	
Type	External Tubular / Valve Regulated Lead - Acid
Nominal Voltage VDC	12, 24,36,48,72,96.120,192,240
Recharge Time	8-12 Hours
Mode of Charging	CV/CC MODE
Features	
Standard	Overload Reset & Front LCD
Optional	Spike & Surge Suppressor, Inverter Bypass & Software Control
Protection	
Charger	Voltage & Current Limiter, Auto Phase Sequence correction & Failure Protector & Fuse/ Circuit Breaker
Inverter	Over Voltage, under voltage cut off, Overload cut-off & Short Circuit Protection.
Battery	Battery Deep Discharge ,Overcharge Cut-off & HRC Fuse / Circuit Breaker
Indication	
Visual	Mains, Charger, Inverter, Battery & Error Information Status
Audible	Changeover, Overload, Battery low & other Error Alerts
Environment	

Altitude: 0 – 2000m | Temperature: 0 – 40 C | Humidity: 95% Non Condensing | Noise: <60dB

STABILIZER SPECIFICATION

Standard	Confirms to latest IS-9815 & ISO 2026 standards
Rating	Upto 5000 KVA
Input Voltage Ranges	Single Phase :160V-260V, 140V-280V and 90V-270V (Can be customised) Three Phase : 270V - 460V, 250V-460V and 150V-460V (Can be customised)
Output Voltage Ranges	Single Phase : 220/230/240 ± 1% & Three Phase : 380/400/415 ± 1%
Output Perform (Optional)	110V output for imported equipments
Input Frequency	47 - 53 Hz
Response Time	Instantaneous (milisec)
Correction Speed	10 - 60Vi/sec (as required)
Correction Methods	Step less correction using variac
Cooling	Natural Air / Natural Oil
Efficiency	More than 98%
Duty Cycle	Continuous 24 Hrs.
Operation	Auto/Manual
No Load Loss	Less than 0.4%
Compatibility Test	Specially designed control card for faithful operation on Mains as well as DG Set
Suitability	Suitable for 100% Unbalanced/Balanced Supply & 100% Unbalanced/Balanced Loads
Operating Temperature	-15°C to 50°C above ambient

ONLINE SPECIFICATION

1-10KVA (1:1) / 5-40KVA (3:1)

Capacity	**1-10KVA (1:1) /**	**5-40KVA (3:1)**
Technology	IGBT-PWM	
Input	**Single Phase / Three Phase**	
Voltage & Frequency	230AC +/-10%, 50Hz +/-5%	400 V +/- 10 VAC, 50Hz +/-5%
Output	**Single Phase / Singe Phase**	
Voltage & Frequency	230VAC +/-1% 50Hz +/- 51%	
Static Voltage Regulation	+/-1% of Nominal for all Variations of Line Load & +/-10% for 10-100% step Load Change	
Dynamic Voltage Regulation	-6% for 50% step load change	
Total Harmonic Distortion	Linear Load <_2.5% & Non-Linear Load < 5%	
Over Load (Optional)	125% for 10minutes & 150% for 1 Minute	
Waveform	Pure Sine Wave	
Power Factor Load	PF 0.98	
Efficiency (INV)	80-92%	
Crest Factor	1: 3	
Battery		
Type	External Tubular / Battery /SMF Battery	
Nominal Voltage VDC	48, 72, 120, 192, 240, 360 and 384 (Varies Based on the KVA)	
Recharge Time Mode of Battery Charging	8-12 Hours CV/CC mode	
Features		
Standard Optional	Overload Reset & Front Panel LCD Panel Spike & Surge Suppressor, Inverter Bypass & Software Control / Communication/SNMP	
Protection		
Charger MODE	CV voltage & Current Limiter Auto phase sequence correcgtion & failure protector & Fuse / Circuit Breaker with IGBT /SCR Rectifier.	
Inverter	Over Voltage & under voltage, Overload cut-off & Short Circuit Protection	
Battery	Battery Deep Discharge & Overcharge Cut-off & HRC Fuse / Circuit Breaker	
Indication		
Visual	Mains, Charger, Inverter, Battery & Error Information Status	
Audible	Changeover, Overload, Battery low & other Error Alerts	
Environment		
Altitude	0 – 2000m	
Temperature	0 – 40 C	
Humidity	95% Non-Condensing	
Noise	<60dB	

ONLINE SPECIFICATION

5KVA-200KVA(3:3) Ø

Capacity	**5 KVA - 200KVA**
Technology	IGBT-PWM/Thyristor
Input	**Three Phase**
Voltage & Frequency	400VAC +/- 10% 50Hz +/-5%
Output	**Three Phase**
Voltage & Frequency	400vAC +/-1% 50Hz +/- 5% (Can be Varied)
Static Voltage Regulation	+or-6% for 50% step load change
Dynamic Voltage Regulation	+/-1% of Nominal for all Variations of Line Load & +/-10% for 10-100% step Load Change
Total Harmonic Distortion	Linear Load <_2.5% & Non-Linear Load <_5%
Over Load (Optional)	125% for 10minutes & 150% for 1 Minute
Waveform	Pure Sine Wave
Power Factor	0.98, 0.92, 0.8 (3 Varients)
Efficiency	80-92%
Crest Factor	1: 3
Battery	
Type	External Tubular / Valve Regulated Lead - Acid
Nominal Voltage VDC	120, 192, 240, 360 & 384
Recharge Time	8-12 Hours
Mode of Battery charging	CV/CC Mode
Features	
Standard	Overload Reset & Front Panel LCD Panel
Optional	Spike & Surge Suppressor, Inverter Bypass & Software
Software	Control/Communication /SNMP
Protection	
Charger	Voltage & Current Limiter, Phase Sequence & Failure Protector & Fuse/ Circuit Breaker with IGBT/SCR Rectifier.
Inverter	Over Voltage & Under voltage, Overload cut-off & Short Circuit Protection
Battery	Battery Deep Discharge & Overcharge Cut-off & HRC Fuse / Circuit Breaker
Indication	
Visual	Mains, Charger, Inverter, Battery & Error Information Status
Audible	Changeover, Overload, Battery low & other Error Alerts
Environment	
Altitude	0 – 2000m
Temperature	0 – 40 C
Humidity	95% Non Condensing
Noise	<60dB

BATTERY genie

Battery Genie Contents

- Distill Water
- Hand gloves
- Funnel
- Nut, Bolt & Lux
- Petroleum Jelly
- Calendar
- Video
- Hydrometer
- Interlink Cable
- Fuse
- Spanner
- Waste
- Floating Caps
- Multimeter
- Top & Socket
- Battery Coupons
- Brush
- Bag
- Naphthalene Balls
- Goggles
- Cutting Plyer
- Tester

Battery Genie.

- Safeguard your U P S with our Battery Genie Maintenance Kit.
- All you need is few proper tools and recycling ingredients!
  You can now take care of your UPS on your own, at your own comfortable time.
- Without having to wait for technician, without having to pay any extra for services.
- We provide you the simple ways to handle the UPS, using our tools.
- We give you the video support explaining the process. Its absolutely easy and simple.
- And hear this, from us! You never have to buy another kit but just buy the recyclables.
- Our kit will last for ever!! The price you pay for this kit, comes at, Peace of Mind!

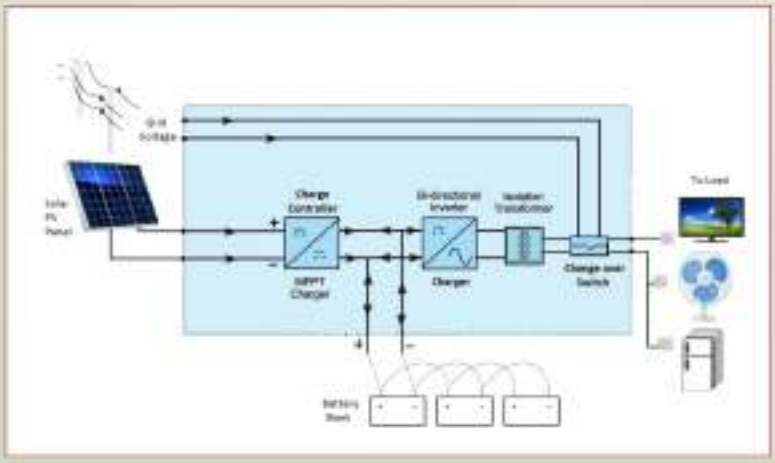
SPECIALIZED PRODUCTS

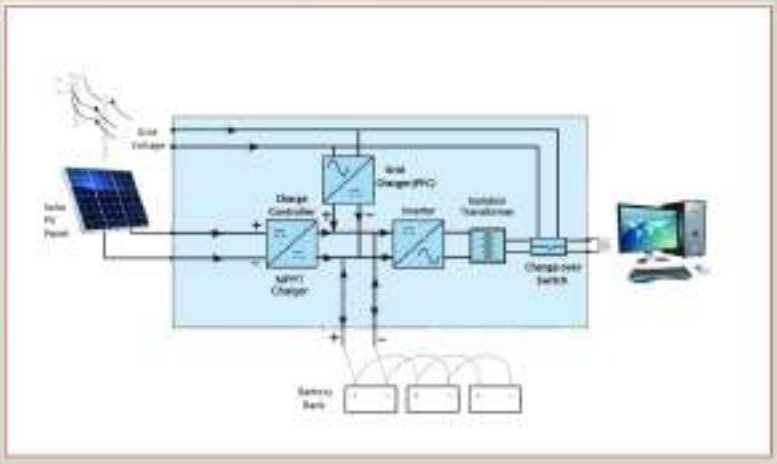
Capacity	**5KVA – 7.5 KVA to 40 KVA**
Technology	IGBT-PWM/Thyristor
Input	Three Phase
Voltage & Frequency	400 VAC +/-10 % 50Hz +/-5%
Output	3phase
Voltage & Frequency	400 VAC +/-1% 50 Hz +/-5%
Static Voltage Regulation	+/-1% of Nominal for all Variations of Line Load & +/-10% for 10-100% step Load Change
Dynamic Voltage Regulation	+or-6% for 50% step load change Alpha
Total Harmonic Distortion	Linear Load <_2.5% & Non-Linear Load >_5%
Over Load	125% for 10minutes & 150% for 1 Minute
Waveform	Pure Sine Wave
Power Factor PF (Load)	0.99
Efficiency	80-92%
Crest Factor	1 : 3
Battery	
Type	External Tubular / SMF
Nominal Voltage (DC)	120 VDC, 192 VDC,240 VDC- 360VDC
Recharge Time	8-12 Hours
Features	
Standard	Overload Reset & Front Panel LCD Panel
Optional	Spike & Surge Suppressor, Inverter Bypass & Software Control/Communication /SNMP
Protection	
Charger	Voltage & Current Limiter, Phase Sequence & Failure Protector & Fuse/ Circuit Breaker with IGBT/SCR Rectifier.
Inverter	Over-Voltage, under voltage & Overload cut-off & Short Circuit Protection
Battery	Battery Deep Discharge & Overcharge cut-off & HRC Fuse / Circuit Breaker
Indication	
Visual	Mains, Charger, Inverter, Battery & Error Information Status
Audible	Changeover, Overload, Battery low & other Error Alerts
Environment	
Altitude	0 – 2000m
Temperature	0 – 40 C
Humidity	95% Non Condensing
Noise	<60dB

UPS SYSTEMS FOR PETROL PUMPS

UPS SYSTEMS FOR GYM

4 -10 KVA	4 -10 KVA
IGBT-PWM	IGBT-PWM
Single Phase	Single Phase
230VAC +/-20% 50Hz +/-5%	230VAC +/-20% 50Hz +/-5%
Single Phase	Single Phase
230VAC +/-5% 50Hz +/-1%	230VAC +/-5% 50Hz +/-1%
Pure Sine Wave	Pure Sine Wave
0.8	0.8
>80%	>80%
External Tubular / Valve Regulated Lead – Acid	External Tubular / Valve Regulated Lead – Acid
48/72/96/120VDC	48/72/96/120VDC
8-12 Hours	8-12 Hours
Overload Reset & Front Panel LCD Panel	Overload Reset & Front Panel LCD Panel
Spike & Surge Suppressor, Inverter Bypass & Software Control	Spike & Surge Suppressor, Inverter Bypass & Software Control
Voltage & Current Limiter, Phase Sequence & Failure Protector & Fuse/ Circuit Breaker	Voltage & Current Limiter, Phase Sequence & Failure Protector & Fuse/ Circuit Breaker
Over-Voltage, under voltage & Overload cut-off & Short Circuit Protector	Over-Voltage, under voltage & Overload cut-off & Short Circuit Protector
Battery Deep Discharge & Overcharge cut-off & HRC Fuse / Circuit Breaker	Battery Deep Discharge & Overcharge cut-off & HRC Fuse / Circuit Breaker
Mains, Charger, Inverter, Battery & Error Information Status	Mains, Charger, Inverter, Battery & Error Information Status
Changeover, Overload, Battery low & other Error Alerts	Changeover, Overload, Battery low & other Error Alerts
0 – 2000m	0 – 2000m
0 – 40 C	0 – 40 C
95% Non Condensing	95% Non Condensing
<60dB	<60dB


Charge Controller
MPPT Charger
Charger
To Load


Charge Controller
MPPT Charger
Inverter

SOLAR PCU
1KVA 100KVA

Technology	**MPPT technology**			
Rating	1Ø i/p-1Ø Output	1 Ø Input-1 Ø Output	3 Ø Input-3 Ø Output	
Capacity	3KVA-4KVA	5KVA-10KVA	20KVA-100KVA	
DC BUS	48V-72V	96V/120V/192V	192V-360V	
	Solar Input			
Operating MPPT Voltage	70V-150V	144V-240V	240V-600V	
Maximum Panel Current	10A-100A	30A-50A	50A-300A	
Reverse Polarity Protection	Short Circuit Diode			
Back Feed Protection	Protected Using Reverse Diode			
MPPT Efficiency	96%(Peak)			
	Battery			
Battery Type	SMF/ Tubular			
Charger Type	Boost Cum Float Charger			
Charging Current Solar Mode	0-55A	0-50A	0-50A	
	Protections			
•	I/P Low Voltage/High Voltage * Over Temperature	•	Battery Low *Over Load *Short Circuit	
	Output			
Transfer Time	Mains To Inverter	>20 ms		
	Inverter To Mains			
	Inverter To Mains	>20 ms		
Voltage On Mains	180V-250V	180V-250V		400v-10%
Voltage On Inverter	230V/50Hz	230V/50Hz		400V ph-ph:230V ph-Neutral
Regulation	Balanced Load	(±)1%	(±)1%	(±)1%
	Unbalanced Load	N.A	N.A	(±)2%
Unbalanced Load Phase Shift	N.A	N.A	120+-0.5	
Over Load Capacity	125%-1 Minute:150% 10 Seconds			
Inverter Protection	Advanced Electronic Protection for device safety backed up with MCB's & fast acting fuses, high speed pulse by pulse electronic device protection over voltage/ under voltage protection, Electronic over current trip.			
	Alarms			
•	Mains Failure	• Battery Low	• Over Temperature	
Efficiency				
Efficiency@100% Load				
On Inverter Mode	>85%	>85-90%	>85-92%	
On Mains Mode	98%	98%	98%	
Multifunctional Solar LCD Energy Meter				
Indicates Following Parameters	• Solar Voltage • Solar Current • Solar Power • Solar Energy Generated • Input Voltage • Output Voltage • Battery Voltage • Load Current			
Enclosure Protection				
	IP-20			
Environmental				
	Acoustic Noise Level	< 60db@1.5 meter		
	Operating Ambient Temperature	0 to 40 deg C		
Utility Power Input				
	Input Voltage	230V-10	230V-10	30-4 Wire
	Input Voltage Window	170-270V	170-270V	330-470V
	TESTING STANDARD	**As per IEC 62040-3/IEC 61683**		

Unmatched

POWER

Performance

Tubular Batteries

alpha® Prolite

Powering Your World

SOLAR

UPS / INVERTER

WINDMILL

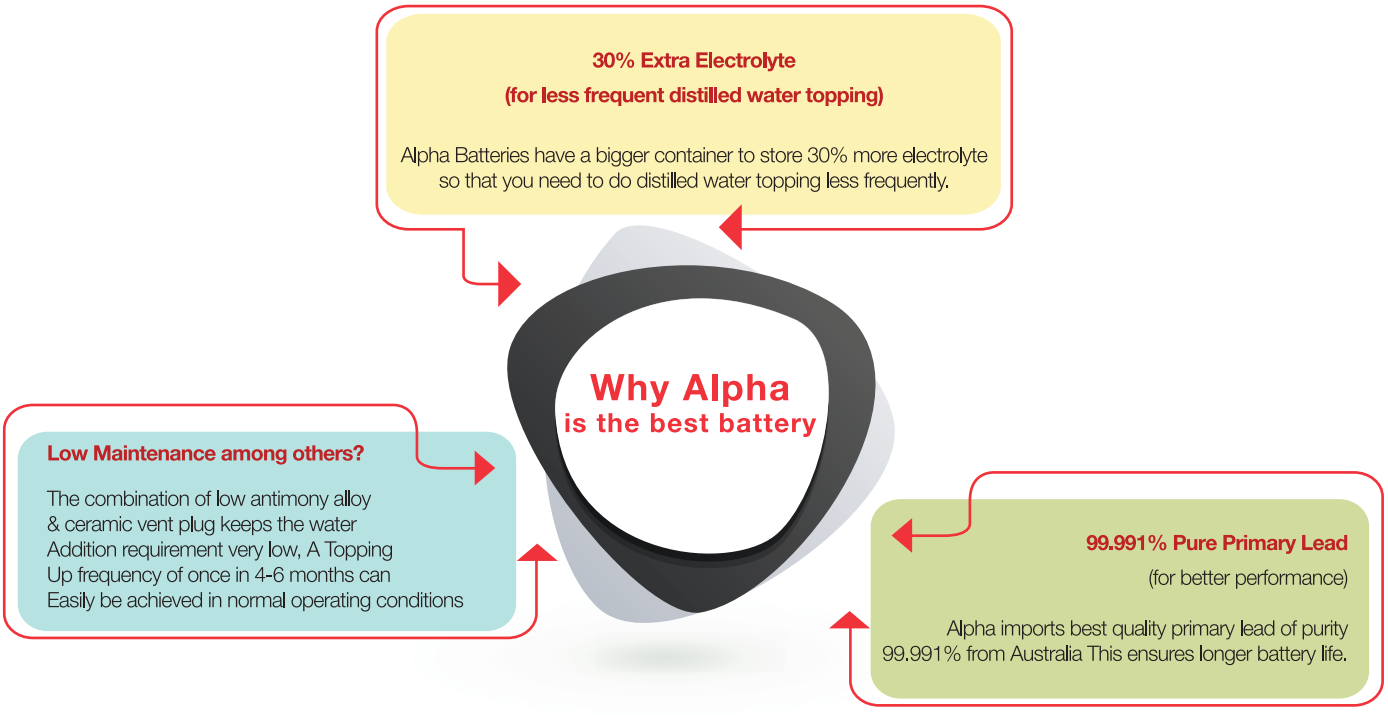
MACHINES

Heat Sealed Tubular Battery: Benefits

- Longer Life – Low Life cycle cost
- Trouble free Performance – Higher reliability
- Low Maintenance cost
- Low self discharge
- Ideal for cycle and float applications
- High power at different rates of discharge
- Safe to use, Suitable for deep discharge application
- Tolerant to high temperature applications

Technical Parameters of PRO C10 Tubular Batteries

			Product Overall Dimension			Charge Current (AMPS)			Application
TYPE	No of Plates	10 Hour Rate capacity	L	W	H	Start	Finish	Electrolyte Volume(Kgs)	
PRO 40	2+3	4 Hrs	405mm	173mm	290mm	4	2	9.4	UPS
PRO 60	3+4	6 Hrs	500mm	220mm	290mm	6	3	14.6	
PRO 80	4+5	8 Hrs	510mm	275mm	290mm	8	4	20.5	
PRO 100	5+6	10 Hrs	510mm	275mm	290mm	10	5	19.3	Inverter
PRO 120	6+7	12 Hrs	510mm	275mm	290mm	12	6	18.3	
PRO 120 TT	3+4	12 Hrs	520mm	190mm	460mm	12	6	24	
PRO 150 TT	3+4	15 Hrs	520mm	190mm	460mm	15	7.5	23.8	Solar
PRO 180 TT	3+4	18 Hrs	520mm	190mm	460mm	18	9	22.2	
PRO 200 TT	4+5	20 Hrs	520mm	190mm	460mm	18	9	21.5	
PRO 220 TT	4+5	22 Hrs	520mm	190mm	460mm	18	9	20.2	Telecommunication

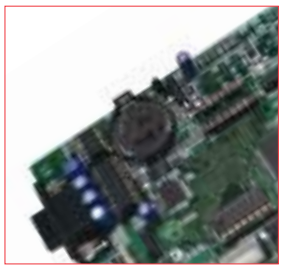


Suggestion	Initial Charging Instructions
For constant potential charging higher rates are permissible for maximum charger setting of 2.40 volts per cell. Trickle charge voltage should be adjusted to 2.25 volts per cell. Technical information regarding 12V Pro Tubular available on request.	• Fill up to the required level with battery grade dilute sulphuric acid • Filling specific gravity: 1.220+_ 0.005 at 27 c • Rest period: 12 hours • Charge at 12% of C(10) capacity to 2.35 vpc & then at 6% of C(10) capacity to 2.75vpc Minimum Ah input: 450% of C10 capacity • All parameters for 12Volts Nominal Monobloc Units

Add-on Products

Static Bypass switch

The UPS could be a double conversion or a delta conversion or rotary type. The static bypass switch provides a means to accomplish high-speed transfer to the bypass path in case of UPS failures. Also, the static bypass switch is used to bypass the UPS so that maintenance can be performed on the UPS. Because electromechanical contactors and circuit breakers are not fast enough to accomplish such high-speed transitions, a power disruption could occur. A static bypass switch is employed to provide uninterrupted power to the load during normal-to bypass and bypass-to-normal transitions.



SNMP

Alpha SNMP cards are an interface between the UPS and the network. Cards can communicate the status of a UPS and issue
commands to it. All Alpha SNMP cards support SNMP and HTTP protocols for user access.
Through the SNMP NMS and/or Web Browser, users can monitor the UPS status, issue commands, and set up the SNMP card through the network

SNMP Card Features

- **Connect the UPS directly to a LAN -** utilizing a standard RJ45 Ethernet connection; requires no special application software.
- **Network UPS management -** monitor and manage the UPS over any computer attached to the network.
- **Integrate UPS into Network Management System (NMS) –** using the inlcluded MIB (Management Information Base) agent or the included SNMP management software.
- **Schedule events –** shutdown or restart connected equipment daily, weekly, or monthly using the integrated scheduler.
- **Event Notification –** notify multiple IT personnel via SNMP traps or e-mail when a power event occurs.

Solar Street light

Solar street lights are raised light sources which are powered by photovoltaic panels generally mounted on the lighting structure or integrated in the pole . Most solar panels turn on and turn off automatically by sensing outdoor light using a light source. Solar streetlights are designed to work throughout the night. Many can stay lit for more than one night if the sun is not available for a couple of days. Older models included lamps that were not fluorescent or LED. Solar lights installed in windy regions are generally equipped with flat panels to better cope with the winds.

- Alpha Solar street lights are independent of the utility grid. Hence, the operation costs are minimized.
- Alpha Solar street lights require much less maintenance compared to conventional street lights.

Battery chargers

We are a prominent organization, which is engaged in offering Industrial Battery Chargers. The offered range of Industrial Battery Chargers is known for operating under voltage deviations. These chargers are portable in nature. These Industrial Battery Chargers are appreciated for their high tolerance to extremities. In addition to this, the offered range is acclaimed for its compact size lending portability.

Our Clientele

alpha®
Power to Innovate!
An ISO 9001:2008 Certified

Alpha Power Solutions

Head Office

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Email: alphapowersolutions@gmail.com

Unit 1

No 3644 & 3645, 4th Cross, Gayathrinagar,
Bangalore - 560 021,

Unit 2 : No.23, 1st floor, 2nd cross, Nanda Gokula Industrial area, Tigalarpalya, near peenya 2nd stage, bangalore-560058

Unit 3 : No.23, 4th floor, 2nd cross, Nanda Gokula Industrial area, Tigalarpalya, near peenya 2nd stage, bangalore-560058

Note:

1. Features & Specifications are subject to change due to continuous improvements.
2. E & O.E- Errors & Omissions excepted.

www.alphapowersolutions.in

Statutory Notice:

All batteries contain lead, which is harmful for humans & environment. As per statutory requirements, the used battery must be returned to the authorized dealer, manufacturer or at the designated collection centers.