ASPIRO

CONVEY THE SUN POWER





SOLAR TUBULAR LEAD ACID BATTERIES

with ELDC GERMAN TECHNOLOGY

www.aspiroglobal.co.in

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SOLAR TUBULAR LEAD ACID BATTERIES

ASPIRO uses premium technology and high grade materials in these lead tubular batteries to deliver maximum power for extended durations and have an appreciably longer life span. These batteries are specifically suitable for powering up UPS and inverters. **ASPIRO** flooded lead acid batteries are environment-friendly, highly reliable in performance and are low in cost.
Hear again our extensive research and development wing has helped us create batteries customized to suit Indian operating conditions. These flooded batteries are perfect for use in battery powered vehicles and to power inverters as well as for telecom use.

- AVAILABLE IN SOLAR TUBULAR RANGE
- PPCE CONTAINER
- TUBULAR POSITIVE PLATES
- PASTED NEGATIVE PLATES
- HIGH POROSITY ENVELOPE SEPARATORS
- MICROPOROUS CERAMIC VENT PLUG
- HIGH TENSILE, ACID RESISTANT POLYSTER GAUNTLETS
- LOW RESISTANCE FASTERERS
- HEAVY DUTY TERMIAL



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TECHNICAL SPECIFICATION

TUBULAR TECHNOLOGY

ASPIRO Tubular Batteries have the spines or the positive plate support cast at high pressure (100 Bar) in imported HADI machine which ensures void free structure which ensures void free orientation and can protect the plate support from anodic corrosion. This in turn ensures higher reliability and longer life. ASPIRO Tubular plates are also cast with low antimony content which reduces the topping up frequency, making the battery low maintenance type. This also keeps the float charging current at a lower value, thus minimises the total energy requirement needed to keep the battery in charged condition during standby float application.

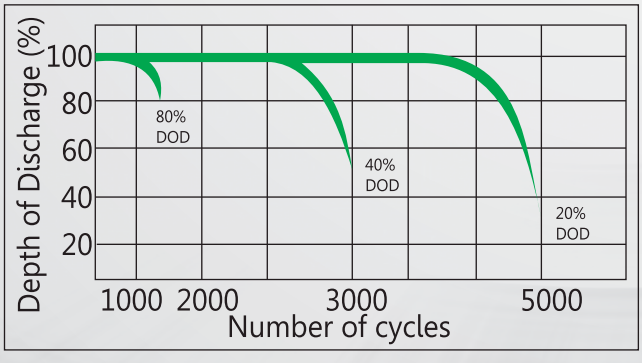
BENIFITS

- Specially Designed For arduous SPV application
- Manufacturing with Tubular Technology which stands for reliable and consistent performance
- Designed to operate in partial state of change condition.
- Ideally designed for cyclic application.
- Superior voltage and energy output profile.
- Excellent charging efficiency:
  AH efficiency - In excess of 90% WH efficiency - In excess of 80%
- Service life comparable with the best of the international Brands.
- Designed cycle life at C10 discharge at 25^{0}C
  1500 cycle to 80% DOD 3000 cycles to50% DOD
  5000 cycles to 20% DOD
- Supplied in factory charged condition - ensures optimal quality and ready to us.
- Ultra low maintenance
- Low rate of self discharge
- 6V mono-blocks are supplied with Ms Cabinet (fitted suitable exhaust system) or MS Stand (knock down condition) in 48V configuration - ideally designed for outdoor application.

CHARGING CHARACTERISTICS OF SOLAR BATTERIES

Model of Operation	Voltage setting per mono-block unit for amblent temperature 25-30^{0}C		Current Settings
	12V Mono-Block	6V Mono-Block	Maximum - 20% of battery Ah capacity Maximum - 0% of battery Ah capacity
Float Voltage	13.7V ± 0.1V	6.85V ± 0.1V	
Bulk Voltage	14.5V ± 0.1V	7.25V ± 0.1V	
Low Voltage Disconnect	11.1V ± 0.1V	5.55V ± 0.1V	

CYCLE LIFE



QUALITY & DESIGN FEATURES

- Modern Terminal Design
- Top Ventilation for Safe Charging
- Robust Grid Design
- PV Envelop Separator
- Thicker Plates
- High Purity Lead

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CONDITION OF FULLY CHARGED

A) 3 Consecutive hourly reading of specific gravity & voltage become constant
B) Top of charge voltage will be around 16.2V - 16.5V
C) All Cells should be gas freely
D) Minimum Ah has been given
E) Specific Gravity at fully Charged condition 1.240 ± 0.005 at 27 Deg C

TECHNICAL DATA

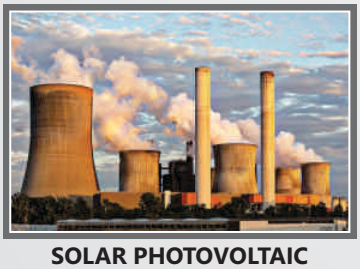
Solar Batteries (IS)											
Battery Type	Spec	Capacity		Dimensions				Cell	Weight with Acid+Water	Terminal	Electrolyte
Battery Model		10 hr	5 hr	L	W	H	TH	Layout	Kg		Volume Itrs
AC10-2200	20 Ah	20	17	305	170	180	230	R	13.5	L - Type	6.4
AC10-6000	40 Ah	40	33	410	175	190	240	L	22.0	L - Type	9.6
AC10-9500	75 Ah	75	62	500	220	205	255	Layout 3	36.0	L - Type	15.3
AC10-12000	100 Ah	100	83	500	220	205	255	Layout 3	40.0	L - Type	17.0
AC10-14000	120 Ah	120	100	505	190	360	410	L	54.5	L - Type	21.0
AC10-17000	150 Ah	150	125	505	190	360	410	L	59.4	L - Type	19.8
AC10-22000	200 Ah	200	180	505	190	360	410	L	65.0	R - Type	21.0
AC10-24000	220 Ah	220	200	505	190	360	410	L	68.0	R - Type	22.5
AC10-26000	240 Ah	240	220	505	190	360	410	L	71.0	R - Type	23.2
AC10-27000	250 Ah	250	230	505	190	360	410	L	75.0	R - Type	24.0
AC10-29000	270 Ah	270	250	505	190	360	410	L	78.0	R - Type	24.0

Note: for expert we can provide 25Ah & 55 Ah also.

APPLICATION


SOLAR HOME LIGHTING


SOLAR STREET LIGHTING


SOLAR PHOTOVOLTAIC POWER PLANTS


TRAFFIC SIGNALLING



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