



C⁺POWER

PROFESSIONAL ON BATTERY

CSPOWER BATTERY TECH CO.,LTD



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CSPOWER: CONSTANT, SAFE AND DURABLE BATTERY FOR YOU.



About us

CSPOWER BATTERY TECH CO.,LTD is a professional manufacturer and exporter of environmental friendly Rechargeable Deep Cycle AGM Sealed Lead Acid (SLA) Batteries, Solar GEL Batteries, Front Terminal Battery, High Temperature long life GEL battery, OPzV Battery, Car/Auto Batteries, Telecom Batteries, Lithium batteries and other Solar related products such as Solar inverter, Solar charger controller, Solar panel and so on.

Incorporated in 2003, CSPOWER has steadily expanded to approximately 1000 employees which include an experienced management team supported by a team of highly committed technical and manufacturing workers.

Located in a world-class, modern industrial park of 50,000 square meters in Guangdong, China, CSPOWER's top of line facilities produce an annual capacity of approximately 2,000,000kVAh.

CSPOWER batteries are classified into two categories: Valve-Regulated Lead Acid Battery and GEL Battery. The VRLA battery includes UPS inverter AGM battery, Solar Deep Cycle battery, Telecom Front terminal battery, long life span over 10years; The GEL Battery includes Solar Gel battery, High temperature long life Gel battery, OPzV Tubular Gel battery, longer life span 15-25years mainly for solar and wind power system.

With the continuous innovation and pursuit of perfection, CSPOWER has own professional Quality Management System since established. We have successfully got the certificates of ISO9001 quality management system, ISO14001 environment management system, and passed the audit of OHSAS 18001. Also, we have received various product quality recognitions, like CE authentication of the European Union, UL, ISO9001, and TLC certificates in China.

In domestic market, our main customers include China Mobile Limited & Unicom Limited, ZTE Corporation, Delta Electronics Inc, Huawei Technologies, APC, Eaton and so on. And for overseas market, we have exported to over hundreds of countries such as: USA, Canada, Mexico, Australia, Finland, Germany, Spain, Russia, Iran, Thailand, South africa, Burkina faso, Nigeria, etc.

CSPOWER is competent at ODM and OEM orders according to customers realtime request. Please come to us for your only reliable battery and solar partner in China today.

Certificate



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NEWEST HTL SERIES HIGH / COLD TEMPERATURE LONG LIFE DEEP CYCLE GEL BATTERY

- > Voltage: 12V, 6V
- > Capacity: upto 12V300Ah, 6V420Ah
- > Designed floating service life: 15~20 years@25°C



SUMMARY

NEWEST IN 2016, CSPower HIGH TEMPERATURE LONG LIFE GEL BATTERY, BEST CHOICE TO WORK IN HOT/COLD TEMPERATURE SITES AND LONG LIFE OVER 15YEARS.

Considering the challenge that when normal battery work in hot or cold environment the battery will be derate, we developed a new range type of battery adapted for these environments.

We are proud to introduce our High/COLD Temperature Long Life Deep Cycle GEL Battery - HTL series.

Using thick plate design with special additives (super-C). This newly developed battery can work even high temperature up to 60°C or down to -20°C without the use of any air-conditioner.

FEATURES AND BENEFITS

HTL series is specially High-temperature sealed free maintenance deep cycle GEL battery with 15-20 years design life in float service, 30% more than standard Gel battery, and 50% more than Lead Acid AGM battery.

It meets with UL, CE and ISO standards. With up-dated patented technology and high purity raw GEL materials, the HTL series battery maintains high consistency for better performance and reliable standby service life. It is designed specially for using under high and cold temperature sites.

- 1) Three years warranty at 35°C average
- 2) Able to operate at -20°C to 60°C
- 3) Longer life and higher stability under high temp. environment (no air-con needed)
- 4) Use super-C additives lead plates: Deep discharge recovery capability
- 5) Cycle usage: 50% DOD, 1500 Cycles work in high/cold temp. area.

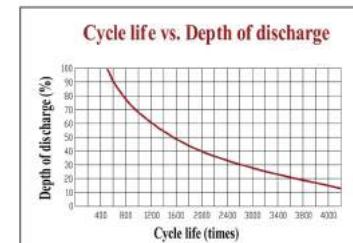
CONSTRUCTION

1. HTL series adopts super corrosion-resistant alloy and unique patented grid structure, so can improve the lead plates corrosion-resistant performance in high temperature.
2. It adopts special positive negative lead plates ratio and unique nano gel electrolyte, so can improve battery overpotential of hydrogen evolution effectively and high reduce the water loss in high temperature environment.
3. Its paste formula is added anti-high temperature expanding agent, so can work continuously in high temperature environment.
4. HTL's shell adopts anti-high temperature ABS material, so the battery inside will not be over heat lead to water loss because of high temperature environment, ensure the battery super long life and the shell will not swell even use in extreme high temperature area.
5. HTL series adopts patented gel electrolyte by nano-meter fumed silica, which advantage is high heat capacity and excellent heat release performance, can avoid the thermal runaway problem of normal battery, and discharge capacity can increase by over 30% in low temperature area. So HTL battery can work very well in severe environment between -40 C -65 C.
6. Its formula is added special super expanding agent which ensure battery discharge capacity is higher than other normal battery when work in low temperature, thus even HTL battery work in -40 C area, it can work stable and continuously.

APPLICATIONS

- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- BTS Stations
- Control System
- Medical Equipments
- UPS systems
- Solar and Wind
- Emergency systems

CSPower MODEL	Voltage	Capacity	Battery Dimension(mm)				Weight(kg)
	(V)	(Ah)	Length	Width	Height	Total Height	(±3%)
HTL12 - 14	12	14	152	99	96	102	4.1
HTL12 - 20	12	20	181	77	167	167	6.3
HTL12 - 24	12	25	166	175	126	126	8.6
HTL12 - 26	12	25	165	126	174	179	8.7
HTL12 - 35	12	35	196	130	155	167	10.8
HTL12 - 40	12	40	198	166	174	174	14.5
HTL12 - 55	12	55	229	138	208	212	16.3
HTL12 - 70	12	70	350	167	178	178	23.6
HTL12 - 75	12	75	260	169	208	227	25.3
HTL12 - 85	12	85	260	169	208	227	26.4
HTL12 - 90	12	90	307	169	211	216	28.5
HTL12 -100	12	100	307	169	211	216	30.5
HTL12 -110	12	110	328	176	214	220	33.0
HTL12 -120	12	120	407	173	210	233	39.5
HTL12 -135	12	135	344	172	280	285	41.1
HTL12 -150	12	150	484	171	241	241	45.8
HTL12 -180	12	180	532	206	216	222	56.3
HTL12 -200	12	200	532	206	216	222	58.7
HTL12 -230	12	230	522	240	219	225	65.3
HTL12 -250	12	250	520	268	203	207	71.3
HTL12 -300	12	300	520	268	220	226	77.3
HTL6 - 200	6	200	306	168	220	222	30.3
HTL6 - 210	6	210	260	180	247	249	29.8
HTL6 - 220	6	220	306	168	220	222	31.8
HTL6 - 225	6	225	243	187	275	275	30.8
HTL6 - 310	6	310	295	178	346	366	46.3
HTL6 - 330	6	330	295	178	354	360	46.9
HTL6 - 380	6	380	295	178	404	410	55.6
HTL6 - 420	6	420	295	178	404	410	57.1



HTD SERIES LONG LIFE DEEP CYCLE VRLA AGM BATTERY

- > Voltage: 6V, 12V
- > Capacity: upto 6V420Ah, 12V300Ah
- > Designed floating service life: 12~15 years@25°C/77°F.



SUMMARY

Since 2003, CSPower start the research and produce sealed free maintenance AGM and GEL storage batteries. Our batteries are always in the process of innovation according to market and environment: AGM Battery CS series→GEL battery CG series→Deep Cycle AGM battery HTD series→High Temperature Long Life Deep Cycle GEL battery HTL series.

HTD series deep cycle AGM battery is specially valve regulated sealed free maintenance deep cycle AGM battery with 12-15 years design life in float service, perfect choice for deep cycle use, 30% longer life than regular AGM battery, reliable for backup use and solar cycle use.

FEATURES AND BENEFITS

CSPower HTD series deep cycle long life vrla agm battery uses a different chemistry additives in the positive plates and special AGM separators, The HTD series features 50% higher cyclic life with 12-15 years of float life when compared to the standard Duration range. This series is highly suited for very unreliable power applications requiring the batteries to provide extra cyclic life performance such as PV solar system applications, BTS systems and electric vehicles.

1. Three years warranty for solar cycle use.
2. 30% longer life than regular AGM lead acid battery.
3. Longer life and higher stability for deep cycle use.
4. Use Super-C additives lead plates: Deep discharge recovery capability
5. Cycle usage: 50% DOD, >1200 Cycles.

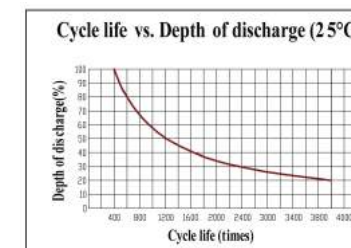
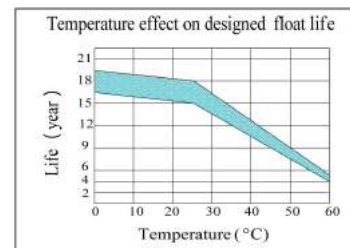
CONSTRUCTION

1. HTD series battery adopts unique grid structure, special super corrosion-resistant alloy and unique active material formula, which can improve the efficiency, so HTD battery recover performance is excellent after deep discharge even discharge to empty, also with the advantage of high durability, enough capacity and long cycle life.
2. All in HTD battery adopts high pure raw materials since original, so its self discharge rate is very low below 3% every month.
3. The electrolyte of HTD battery adopts low density electrolyte and add particular electrolyte additive, so can lower the corrosion of lead plates by electrolyte, reduce the problem of stratification of electrolyte density, result in to improve the battery charge receive capacity and over discharge performance, finally can extend the battery cycle life on a higher level.
4. HTD deep cycle agm battery adopts unique radial grid structure and super thick lead plates, in order to extend battery cycle life. Enhancing lead plates thickness ensure that battery can realize self protect of over discharge so can avoid battery over discharge.
5. Newest HTD deep cycle battery adopts patent technology of high strength tight assemble and 4BS lead paste, so can extend the battery cycle life obviously.

APPLICATIONS

- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- BTS Stations
- Control System
- Medical Equipments
- UPS systems
- Solar and Wind
- Emergency systems

CSPower MODEL	Voltage	Capacity	Battery Dimension(mm)				Weight(kg)
	(V)	(Ah)	Length	Width	Height	Total Height	(±3%)
HTD12 - 14	12	14	152	99	96	102	3.8
HTD12 - 20	12	20	181	77	167	167	6.0
HTD12 - 24	12	25	166	175	126	126	8.3
HTD12 - 26	12	25	165	126	174	179	8.4
HTD12 - 35	12	35	196	130	155	167	10.5
HTD12 - 40	12	40	198	166	174	174	14.2
HTD12 - 55	12	55	229	138	208	212	16
HTD12 - 70	12	70	350	167	178	178	23.3
HTD12 - 75	12	75	260	169	208	227	25
HTD12 - 85	12	85	260	169	208	227	26.1
HTD12 - 90	12	90	307	169	211	216	28.2
HTD12 -100	12	100	307	169	211	216	30.2
HTD12 -110	12	110	328	176	214	220	33.0
HTD12 -120	12	120	407	173	210	233	39.2
HTD12 -135	12	135	344	172	280	285	40.8
HTD12 -150	12	150	484	171	241	241	45.5
HTD12 -180	12	180	532	206	216	222	56
HTD12 -200	12	200	532	206	216	222	58.4
HTD12 -230	12	230	522	240	219	225	65
HTD12 -250	12	250	520	268	203	207	71
HTD12 -300	12	300	520	268	220	226	77
HTD 6 - 200	6	200	306	168	220	222	30
HTD 6 - 210	6	210	260	180	247	249	29.5
HTD 6 - 220	6	220	306	168	220	222	31.5
HTD 6 - 225	6	225	243	187	275	275	30.5
HTD 6 - 310	6	310	295	178	346	366	46
HTD 6 - 330	6	330	295	178	354	360	46.6
HTD 6 - 380	6	380	295	178	404	410	55.3
HTD 6 - 420	6	420	295	178	404	410	56.8



CS SERIES VRLA AGM BATTERY

- > Voltage: 6V, 12V
- > Capacity: upto 6V200Ah, 12V250Ah
- > Designed floating service life: 8~10 years@25°C/77°F.



SUMMARY

CSPower sealed free VRLA batteries are designed to have a large amount of stored current discharged between charging sessions, with very heavy non-porous battery plates to withstand repeated major discharging and charging cycle. The CSPower AGM battery uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, thus the CS range features 30% higher cyclic life with 10 years of float life when compared to the standard Duration range.

FEATURES AND BENEFITS

- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 10 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Wide operating temperature range from -20 °C to 40°C
- 3% Low self-discharge rate
- Very good cycle performance: up to 700 cycles @50% DOD
- Excellent deep discharge recovery capability

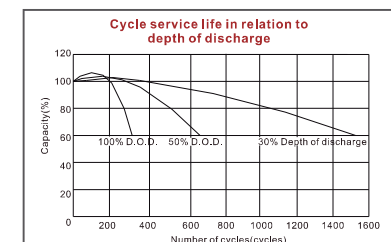
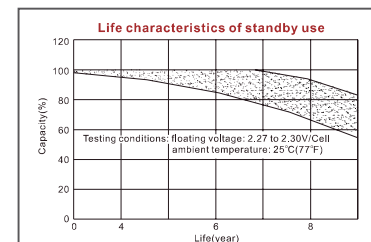
CONSTRUCTION

- Positive plate – Thick high Sn low Ca grid with special paste
- Negative plate – Balanced Pb-Ca grid for improved recombination efficiency
- Separator – Advanced AGM separator for high pressure cell design
- Electrolyte – Dilute high purity sulfuric acid
- Battery container and cover – Fire resistance ABS, water proof
- Pillar seal – Two layers epoxy resin seal
- Relief valve – Complete with integrated flame arrestor

APPLICATIONS

- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Medical Equipments
- UPS systems
- Solar and Wind
- Emergency systems

CSPower MODEL	Voltage (V)	Capacity (Ah)	Battery Dimension (mm)				Weight (kg) (±3%)	Terminal	Bolt
			Length	Width	Height	Total Height			
CS6-180	6	180	260	180	247	251	27.5	T5	M8×16
CS6-180A	6	180	306	168	220	226	27	T5	M8×16
CS6-200	6	200	260	180	247	251	29.5	T5	M8×16
CS6-200A	6	200	323	178	224	229	29.5	T5	M8×16
CS12-15	12	15	152	99	96	102	3.8	F1/F2	/
CS12-17/18	12	17/18	181	77	167	167	5.2	T1	M5×16
CS12-20	12	20	181	77	167	167	6	T2	M6×16
CS12-24	12	24	166	126	174	174	7.7	T2	M6×16
CS12-26	12	26	166	175	126	126	8.3	T2	M6×16
CS12-33	12	33	196	130	155	167	10	T2	M6×16
CS12-38/40	12	38/40	198	166	172	172	12.3	T2	M6×16
CS12-45	12	45	198	166	174	174	13	T2	M6×16
CS12-50	12	50	229	138	208	212	15.5	T3	M6×16
CS12-55	12	55	229	138	208	212	16.2	T3	M6×16
CS12-65	12	65	350	167	178	178	20.5	T3	M6×16
CS12-70	12	70	350	167	178	178	21.5	T3	M6×16
CS12-75	12	75	260	169	211	215	22	T3	M6×16
CS12-80	12	80	260	169	211	215	23.5	T3	M8×16
CS12-85/90	12	85/90	331	174	214	219	25	T3	M6×16
CS12-100	12	100	307	169	211	216	27	T3	M6×16
CS12-100A	12	100	331	174	214	219	29	T4	M8×16
CS12-120	12	120	407	173	210	233	33	T5	M8×16
CS12-120A	12	120	407	173	210	233	34	T5	M8×16
CS12-135	12	135	341	173	283	288	41	T5	M8×16
CS12-150A	12	150	484	171	241	241	41	T4	M8×16
CS12-150	12	150	484	171	241	241	43.5	T4	M8×16
CS12-160	12	160	532	206	216	222	48.5	T4	M8×16
CS12-180	12	180	532	206	216	222	53	T4	M8×16
CS12-200	12	200	522	240	219	225	56	T5	M8×16
CS12-200A	12	200	522	240	219	225	58.2	T5	M8×16
CS12-230	12	230	522	240	219	225	61	T5	M8×16
CS12-250	12	250	520	268	220	225	70	T5	M8×16



CG SERIES VRLA GEL BATTERY

- > Voltage: 6V, 12V
- > Capacity: upto 6V200Ah, 12V250Ah
- > Designed floating service life: 12~15 years@25°C/77°F.



SUMMARY

CSPower VRLA standard GEL battery is designed for frequent cyclic charge and discharge applications under extreme environments. By combining the newly developed Nano Silicone Gel electrolyte with high density paste, the Solar range offers high recharge efficiency at very low charge current. The acid stratification is highly reduced by adding Nano Gel.

FEATURES AND BENEFITS

1. This Energy storage battery utilizes gel electrolyte technology. The uniformly distributed gel electrolyte is made by mixing sulfuric acid with silica fume.
2. The electrolyte can hold the battery plates securely in an immobile gel.
3. Radial grid design offers this power storage device excellent discharge performance.
4. Due to 4BS lead paste technology, our deep cycle gel battery provides long lasting service life.
5. Employing unique grid alloy, special gel formulation and distinct positive and negative lead paste ratio, the maintenance free battery boasts outstanding deep cycle service performance and over discharge recovery ability.
6. Completely manufactured from high purity raw materials, CSPowerVRLA standard gel battery has extremely low self discharge.
7. Gas recombination technology ensures excellent seal reaction efficiency, thus delivering no pollution such as acid mist to the environment.
8. The gel VRLA battery boasts reliable sealing technology which enables security seal performance.

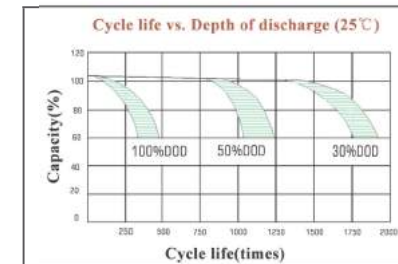
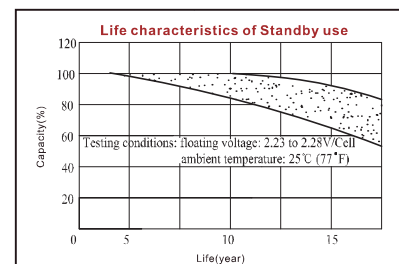
CONSTRUCTION

- 1) Container/Cover: Made of UL94HB and UL 94-0ABS Plastic, fire resistance and water proof.
- 2) 99.997% pure new lead NEVER use recycle lead.
- 3) Negative Plates: Use the special PbCa alloy grids, optimize the recombination efficiency and less gassing.
- 4) High quality AGM separator: Absorb acid electrolyte, the best retainer mat for VRLA batteries.
- 5) Positive plates: PbCa grids minimize corrosion and prolong life.
- 6) Terminal post: Copper or lead material with maximum conductivity, enhance the high current rapidly..
- 7) Vent Valve: Allows the release of the excess gas automatically for safety.
- 8) Three steps of Seal procedures: Ensure battery completely sealed with safety, never leakage and volatile acid, longer life.
- 9) Silicone Nano GEL electrolyte: Import from Germany Degussy famous brand silicone.

APPLICATIONS

- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Medical Equipments
- UPS systems
- Solar and Wind
- Emergency systems

CSPower MODEL	Voltage (V)	Capacity (Ah)	Battery Dimension (mm)				Weight (kg) (±3%)	Terminal	Bolt
			Length	Width	Height	Total Height			
CG6-180	6	180	260	180	247	251	28	T5	M8×16
CG6-180A	6	180	306	168	220	226	27.5	T5	M8×16
CG6-200	6	200	260	180	247	251	30	T5	M8×16
CG6-200A	6	200	323	178	224	229	30	T5	M8×16
CG12-33	12	33	196	130	155	167	10.5	T2	M6×16
CG12-38/40	12	38/40	198	166	172	172	12.8	T2	M6×16
CG12-45	12	45	198	166	174	174	13.5	T2	M6×16
CG12-50	12	50	229	138	208	212	16	T3	M6×16
CG12-55	12	55	229	138	208	212	16.7	T3	M6×16
CG12-65	12	65	350	167	178	178	21	T3	M6×16
CG12-70	12	70	350	167	178	178	22	T3	M6×16
CG12-75	12	75	260	169	211	215	22.5	T3	M6×16
CG12-80	12	80	260	169	211	215	24	T3	M8×16
CG12-85/90	12	85/90	331	174	214	219	25.5	T3	M6×16
CG12-100	12	100	307	169	211	216	27.5	T3	M6×16
CG12-100A	12	100	331	174	214	219	29.5	T4	M8×16
CG12-120	12	120	407	173	210	233	33.5	T5	M8×16
CG12-120A	12	120	407	173	210	233	34.5	T5	M8×16
CG12-135	12	135	341	173	283	288	41.5	T5	M8×16
CG12-150A	12	150	484	171	241	241	41.5	T4	M8×16
CG12-150	12	150	484	171	241	241	44	T4	M8×16
CG12-160	12	160	532	206	216	222	49	T4	M8×16
CG12-180	12	180	532	206	216	222	53.5	T4	M8×16
CG12-200	12	200	522	240	219	225	56.5	T5	M8×16
CG12-200A	12	200	522	240	219	225	58.7	T5	M8×16
CG12-230	12	230	522	240	219	225	61.5	T5	M8×16
CG12-250	12	250	520	268	220	225	70.5	T5	M8×16



FT SERIES FRONT TERMINAL AGM BATTERY

- > Voltage: 12V
- > Capacity: upto 12V200Ah
- > Designed floating service life: 8-10 years @ 25 °C/77 °F.

APPLICATIONS

1. Suitable for 19inch and 23inch power cabinet.
2. Used in telecom system including exchange board, microwave station, mobile base station, data center, radio and broadcast station.
3. Great for power supply system of private network or LAN.
4. Used as signal system battery and emergency lighting system battery.
5. Perfect for EPS and UPS system.
6. Solar and wind system.



CSPower Front Terminal lead acid battery is mainly used in the area of communication, which is novel in design, reasonable in structure and occupying the leading position in the same industry of the world. As with previous INTELEC (International Telecommunications Energy) conferences, many people were concerned about the life and durability of VRLA (Valve Regulated Lead Acid) batteries. It can be employed in numerous applications in the fields of communications. In order to ensure that the power supply is guaranteed at all times, essential facilities are backed up with high performances battery systems. Sudden breaks in the power supply are then no longer a problem. If the power suddenly fails, battery systems take over the emergency supply of power.

FEATURES:

1. This AGM battery for telecom industry comes with slim shape design and front terminal connection. Thus, easy installation and maintenance can be ensured and space can be saved.
2. Radial grid design plus tight assembly technology assures this rechargeable battery prominent high rate discharge performance.
3. Our front access battery features unique design which makes it sure that the electrolyte volume can be hardly reduced during use and addition of water is not necessary in its service life.
4. Due to unique corrosion resistant grid alloy, the power storage cell can serve for more than 8-10years in standby current at a temperature of 25 degree.
5. Fully made from high purity materials, the front access AGM battery comes with extremely low self discharge.
6. Gas recombination technology makes this power supply device environment friendly and pollution free. To be specific, due to this technology, the battery can have super high seal reaction efficiency, thus generating no acid mist.
7. The use of best-in-class sealing technology ensures that this UPS battery is perfectly sealed, providing high security and reliability.

CSPower MODEL	Voltage (V)	Capacity (Ah)	Battery Dimension (mm)				Weight (kg) (±3%)	Terminal	Bolt
			Length	Width	Height	Total Height			
FT12-55	12	55/10HR	277	106	223	223	16	T2	M6×16
FT12-80	12	80/10HR	562	114	188	188	25	T3	M6×16
FT12-100	12	100/10HR	507	110	223	223	29.4	T4	M8×16
FT12-105/110	12	110/10HR	394	110	286	286	30.5	T4	M8×16
FT12-125	12	125/10HR	552	110	239	239	38	T4	M8×16
FT12-150	12	150/10HR	551	110	288	288	44	T4	M8×16
FT12-160	12	160/10HR	551	110	288	288	44.5	T4	M8×16
FT12-175	12	175/10HR	546	125	316	323.5	53.5	T5	M8×16
FT12-180	12	180/10HR	560	125	316	316	54	T5	M8×16
FT12-200	12	200/10HR	560	125	316	316	55.3	T5	M8×16

Products will be improved without notice, please contact sales for specification in kind prevail.

FL SERIES FRONT TERMINAL GEL BATTERY

- > Voltage: 12V
- > Capacity: upto 12V200Ah
- > Designed floating service life: 12-15 years @ 25 °C/77 °F.

APPLICATIONS

1. Suitable for 19inch and 23inch power cabinet.
2. Used in telecom system including exchange board, microwave station, mobile base station, data center, radio and broadcast station.
3. Great for power supply system of private network or LAN.
4. Used as signal system battery and emergency lighting system battery.
5. Perfect for EPS and UPS system.
6. Solar and wind system.



As a well renowned front access lead acid battery manufacturer in China, CSPower offers the widest selection of front access AGM batteries and GEL VRLA batteries. The gel technology has numerous superiorities over the equivalent AGM battery range, especially for telecommunication applications.

The FL type front terminal battery comes with long lasting design life and front access connections for fast, easy installation and maintenance, and is ideally suitable for telecom outdoor equipment, renewable energy systems and other severe environments.

FEATURES:

1. This stationary battery comes with a superior gel electrolyte where sulfuric acid is evenly mixed with silica fume and acid layering does not exist.
2. The electrolyte is gel like and immobile, which enables no leakage and uniform reaction of battery plates.
3. Serving as perfect power supply equipment, the front access lead acid battery is designed with slim shape. Front access terminal connection is convenient for installation and maintenance, and space serving.
4. Radial type grid design and tight assembly technology enable prominent high rate discharge performance for our GEL VRLA battery.
5. Due to a unique design, the electrolyte volume of this battery can not reduce in use, and it requires no watering during service life.
6. Special anti-corrosion grid alloy is utilized so that the energy storage device comes with more than 12years of design life at 25degree.
7. High purity raw materials ensure super low battery self discharge.
8. Thanks to the use of gas recombination technology, our industrial battery boasts extremely high seal reaction efficiency and yields no acid mist, thus friendly and pollution-free to the environment.

CSPower MODEL	Voltage (V)	Capacity (Ah)	Battery Dimension (mm)				Weight (kg) (±3%)	Terminal	Bolt
			Length	Width	Height	Total Height			
FL12-55	12	55/10HR	277	106	223	223	16.5	T2	M6×16
FL12-80	12	80/10HR	562	114	188	188	25.5	T3	M6×16
FL12-100	12	100/10HR	507	110	223	223	30	T4	M8×16
FL12-105/110	12	110/10HR	394	110	286	286	31	T4	M8×16
FL12-125	12	125/10HR	552	110	239	239	38.5	T4	M8×16
FL12-150	12	150/10HR	551	110	288	288	44.5	T4	M8×16
FL12-160	12	160/10HR	551	110	288	288	45	T4	M8×16
FL12-175	12	175/10HR	546	125	316	323.5	54	T5	M8×16
FL12-180	12	180/10HR	560	125	316	316	54.5	T5	M8×16
FL12-200	12	200/10HR	560	125	316	316	56	T5	M8×16

Products will be improved without notice, please contact sales for specification in kind prevail.

CL2 LONG LIFE DEEP CYCLE AGM BATTERY

- > Voltage: 2V
- > Capacity: upto 2V3000Ah
- > Designed floating service life: 12~15 years @ 25 °C/77 °F.



Advantages for Industry battery 2V

CSPower CL series of 2V VRLA AGM batteries upto 2V3000Ah are recognized as the most reliable and high quality battery system in the industry. They are designed with advanced AGM (Absorbent Glass Mat) technology, Long service life designed with 10-15 years, the batteries comply to the most popular international standards, such as IEC60896-21/22, CE, ISO and Eurobat Guide long life.

Stable Quality & High Reliability

CSPower battery is well-known for its stable and reliable performance. Sealed AGM batteries are all free maintenance; thus permitting a safe and proper operation of the equipments. The battery can withstand overcharge, over discharge, vibration, and shock. It is also capable of extended storage.

Long Service Life, Float or Cyclic

The CSPower VRLA battery has a long life in float or cyclic service. The expected life of float service is 12 years @ 25 C.

Low Pressure Venting System

CSPower batteries are equipped with a safe low pressure venting system, which operates from 1 psi to 6 psi. The venting system is designed to release excess gas in the event that the gas pressure rises to a level above the normal rate. Afterwards, the venting system automatically re-seals itself when the gas pressure level returns its normal rate. This feature prevents excessive build up of gas in the batteries. This low pressure venting system, coupled with the extraordinarily high recombination efficiency, ensure CSPower batteries be the safest VRLA batteries available.

Heavy Duty Grids

The heavy-duty lead calcium-alloy grids in CSPower batteries provide an extra margin of performance and service life in both float and cyclic applications, even in conditions of deep discharge.

Application

Industry use, Communication equipment, Telecommunication control equipment; Emergency systems; Electric power systems; Golf carts; Caravan; Power station; Nuclear power station; Solar power and wind power systems; Load leveling and storage equipment; Marine equipment; Power generation plants; Alarm systems; UPS and inverters; Medical equipment; Fire and security systems; Control equipment; Stand-by electric power.

CSPower MODEL	Voltage (V)	Capacity (Ah)	Battery Dimension(mm)				Weight (kg) (±3%)	Terminal	Bolt
			Length	Width	Height	Total Height			
CL2-200	2	200/10HR	170	106	330	367	13	T5	M8×16
CL2-300	2	300/10HR	171	151	330	365	18.5	T5	M8×16
CL2-400	2	400/10HR	211	176	329	367	26.1	T5	M8×16
CL2-500	2	500/10HR	241	172	330	364	31	T5	M8×16
CL2-600	2	600/10HR	301	175	331	366	37.7	T5	M8×16
CL2-800	2	800/10HR	410	176	330	365	51.6	T5	M8×16
CL2-1000	2	1000/10HR	475	175	328	365	62	T5	M8×16
CL2-1200	2	1200/10HR	472	172	338	355	68.5	T5	M8×16
CL2-1500	2	1500/10HR	401	351	342	378	96.5	T5	M8×16
CL2-2000	2	2000/10HR	491	351	343	383	130	T5	M8×16
CL2-2500	2	2500/10HR	712	353	341	382	180	T5	M8×16
CL2-3000	2	3000/10HR	712	353	341	382	190	T5	M8×16

CG2 LONG LIFE DEEP CYCLE GEL BATTERY

- > Voltage: 2V
- > Capacity: upto 2V3000Ah
- > Designed floating service life: 15~20 years @ 25 °C/77 °F.



SUMMARY

CSPower CG2V series pure GEL battery is with 15-20 years floating design life, equal to HTL12V series deep cycle gel batteries.

It is ideal for standby or frequent cyclic discharge applications under extreme environments. By adopting thicker grids, high purity 99.997% lead and patented Silicon Gel electrolyte, CG2V series offers excellent recovery performance after deep discharge under frequent cyclic discharge use, and can deliver 1500 cycles at 50% DOD even work in hot or cold area. Suitable for Solar, CATV, marine, industry, RV and deep discharge UPS, communication, and telecommunication, etc.

ADVANTAGES FOR 2V INDUSTRY GEL BATTERY

- This Energy storage battery utilizes gel electrolyte technology. The uniformly distributed gel electrolyte is made by mixing sulfuric acid with silica fume.
- The electrolyte can hold the battery plates securely in an immobile gel.
- Radial grid design offers this power storage device excellent discharge performance.
- Due to 4BS lead paste technology, our deep cycle gel battery provides long lasting service life.
- Employing unique grid alloy, special gel formulation and distinct positive and negative lead paste ratio, the maintenance free battery boasts outstanding deep cycle service performance and over discharge recovery ability.
- Completely manufactured from high purity raw materials, CSPower deep cycle gel battery has extremely low self discharge.
- Gas recombination technology ensures excellent seal reaction efficiency, thus delivering no pollution such as acid mist to the environment.
- The gel VRLA battery boasts reliable sealing technology which enables security seal performance.

CSPower MODEL	Voltage (V)	Capacity (Ah)	Battery Dimension (mm)				Weight (kg) (±3%)	Terminal	Bolt
			Length	Width	Height	Total Height			
CG2-200	2	200/10HR	170	106	330	367	13.5	T5	M8×16
CG2-300	2	300/10HR	171	151	330	365	19	T5	M8×16
CG2-400	2	400/10HR	211	176	329	367	26.5	T5	M8×16
CG2-500	2	500/10HR	241	172	330	364	31.5	T5	M8×16
CG2-600	2	600/10HR	301	175	331	366	38.2	T5	M8×16
CG2-800	2	800/10HR	410	176	330	365	52.1	T5	M8×16
CG2-1000	2	1000/10HR	475	175	328	365	62.5	T5	M8×16
CG2-1200	2	1200/10HR	472	172	338	355	69	T5	M8×16
CG2-1500	2	1500/10HR	401	351	342	378	97	T5	M8×16
CG2-2000	2	2000/10HR	491	351	343	383	131	T5	M8×16
CG2-2500	2	2500/10HR	712	353	341	382	181	T5	M8×16
CG2-3000	2	3000/10HR	712	353	341	382	191	T5	M8×16

OPzV SERIES OPzV TUBULAR GEL BATTERY

- > Voltage: 2V
- > Capacity: upto 2V3000Ah
- > Designed floating service life: 20 years @ 25 °C/77 °F.
- > Cyclic usage: 80% DOD, >2000cycles



SUMMARY

By combining the newly developed tubular positive plates with fumed gelled electrolyte, CSPower created the innovative OPzV range of batteries. The range offers 20 years design life and very high deep cycling capabilities. This range is recommended for telecom outdoor applications, renewable energy systems and other harsh environment applications.

CONSTRUCTION

Positive Plates: Robust tubular plates consisting of Pb-Ca-Sn alloy, optimized for high corrosion resistance, offer an extreme high cycling expectancy;

Negative Plates: Grid plate construction consisting of lead calcium alloy;

Separator: Microporous and robust PVC-SiO₂ separator, for positive and negative plates and optimized for low internal resistance; **Container:** ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request;

Terminal Poles: Screw connection for easy and safe assembly and maintenance-free connection with excellent conductivity;

Valves: Release gas in case of excess pressure and protects the cell against atmosphere, reasonable open and close valve pressure, high reliable on performance.

FEATURES AND BENEFITS

1. 20 years design life at floating condition @ 25°C
2. Wide operating temperature range from -40°C to 60°C
3. Tubular positive plate with prolonged cycle life
4. Fumed Silica gel electrolyte
5. Lead Calcium die cast grid with improved corrosion resistance capability
6. Low self-discharge rate and long shelf life
7. Excellent deep discharge recovery capability

APPLICATIONS

- Security Systems
- Telecom
- Electric Utilities
- UPS systems
- Control Equipments
- Photovoltaic Systems
- Medical Equipments
- Renewable Energy System

CSPower MODEL	Voltage (V)	Capacity (AH)	Battery Dimension				Weight Kg (±3%)	Terminal Type
			Length mm	Width mm	Height mm	Total Height mm		
OPzV2-200	2	200	103	206	354	380	18	M8
OPzV2-250	2	250	124	206	354	380	23	M8
OPzV2-300	2	300	145	206	354	380	25	M8
OPzV2-350	2	350	124	206	470	496	28	M8
OPzV2-420	2	420	145	206	470	496	32	M8
OPzV2-500	2	500	166	206	470	496	38	M8
OPzV2-600	2	600	145	206	645	671	46	M8
OPzV2-800	2	800	191	210	645	671	65	M8
OPzV2-1000	2	1000	233	210	645	671	74	M8
OPzV2-1200	2	1200	275	210	645	671	93	M8
OPzV2-1500	2	1500	275	210	795	821	112	M8
OPzV2-2000	2	2000	399	212	772	797	152	M8
OPzV2-2500	2	2500	487	212	772	797	187	M8
OPzV2-3000	2	3000	576	212	772	797	225	M8

Products will be improved without notice, please contact sales for specification in kind prevail.

SMALL CAPACITY SEALED LEAD ACID AGM BATTERY

- > Voltage: 6V, 12V
- > Capacity: upto 6V12Ah, 12V12Ah
- > Designed floating service life: 3-5 years @ 25 °C/77 °F.



SUMMARY

CSPower CS series small capacity sealed free maintenance lead acid batteries are designed with AGM technology, high performance plates and electrolyte to gain extra power output for common power backup system applications widely used in the fields of UPS, Security and Emergency lighting system. They are sealed and free maintenance whole life, valve regulated type standby AGM battery, also named by VRLA battery, SLA battery, and SMF battery.

ADVANTAGES

1. Sealed and maintenance free operation.
2. Non-Spillable construction design.
3. Safety valve installation for explosion proof.
4. 99.99% pure lead plates ensure high quality and high reliability.
5. Low self discharge 3% per month.
6. Long life span 3-5 years for backup use.
7. Using oxygen recombination technology: maintenance-free.
8. Pb-Ca-Sn alloy for plate grids: less gassing and less self-discharging.
9. High quality AGM separator: extend cycle life and prevents micro short circuit.
10. Flame-resistance ABS material: increases the strength of battery container.
11. Silver-coated copper terminals, brass insert terminals and lead terminals improve the electric conductivity.

APPLICATIONS

UPS, Electronic toys, Emergency, Security, Alarm, Lights, Power tools, Electronic scale, Video, standby equipment etc.

CSPower MODEL	Voltage (V)	Capacity (Ah)	Battery Dimension (mm)				Weight kg(±3%)	Terminal
			Length	Width	Height	Total Height		
CS6-4.0	6	4	70	47	101	107	0.7	F1/F2/CUT
CS6-4.5	6	4.5	70	47	101	107	0.75	F1/F2/CUT
CS6-5	6	5	70	47	101	107	0.8	F1/F2
CS6-7.0	6	7	151	34	95	101	1.15	F1/F2
CS6-10	6	10	151	50	94	100	1.6	F1/F2
CS6-12	6	12	151	50	94	100	1.75	F1/F2
CS12-4	12	4	90	70	101	107	1.35	F1/F2
CS12-4.5	12	4.5	90	70	101	107	1.48	F1/F2
CS12-5	12	5	90	70	101	107	1.58	F1/F2
CS12-6.5	12	6.5	151	65	94	100	1.9	F1/F2
CS12-7.0	12	7	151	65	94	100	2.05	F1/F2
CS12-7.2	12	7.2	151	65	94	100	2.15	F1/F2
CS12-7.5	12	7.5	151	65	94	100	2.2	F1/F2
CS12-9	12	9	151	65	94	100	2.4	F1/F2
CS12-10	12	10	152	99	96	102	3.2	F1/F2
CS12-12	12	12	152	99	96	102	3.5	F1/F2

CH SERIES HIGH DISCHARGE AGM BATTERY

- > Voltage: 12V
- > Capacity: 12V35W~12V900W
- > Designed floating service life: 8-10 years @ 25 °C/77 °F.



SUMMARY

CSPower High discharge rate AGM battery: it is kind of special sealed free maintenance lead acid battery, also called high rate discharge battery, it is ideal for space limited applications which require more power than what can be delivered by a standard lead acid battery.

ADVANTAGES

1. Due to special and unique design, this electric power storage comes with high rate discharge performance, high specific power, and over 20% higher energy output than an ordinary battery.
2. The industry battery employs unique corrosion resistant grid alloy and special electrolyte solution, thus keeping excellent low temperature performance and long service life.
3. It is completely made from high purity materials, our AGM lead acid battery has nearly no self discharge, thus can put in stock long time.
4. The CSPower high rate battery adopts gas recombination technology, this power supply equipment boasts super high seal reaction efficiency and thereby generates no acid mist. Thus, it is environmentally friendly.
5. The improve structure design and advance sealing technology ensures reliable seal, and so bringing clients high safety.

APPLICATIONS

CSPower high rate discharge AGM batteries are the best choice for the applications requiring small capacity but large discharge current such as high effect UPS system, starter, electric power tools, etc.

1. Telecommunication systems including exchange board, microwave station, mobile base station, data center, radio and broadcast station;
2. Suitable power battery for electric tool, toy, portable dust collector and unmanned handling robot;
3. Signal system, emergency lighting system, security and protection system;
4. EPS and UPS system.

CSPower MODEL	Voltage	CAPACITY	Capacity	Dimension (mm)				Weight (kg)	Terminal	Bolt
	(V)	(W/CELL)	(Ah)	Length	Width	Height	Total Height	(±3%)		
CH12-35W	12	35/15min	8/10HR	151	65	94	100	2.55	F2	/
CH12-55W	12	55/15min	12/10HR	152	99	96	102	3.8	F2	/
CH12-85W	12	85/15min	20/10HR	181	77	167	167	6.5	T1	M5×16
CH12-115W	12	115/15min	28/10HR	165	126	174	174	8.7	T2	M6×16
CH12-145W	12	145/15min	34/10HR	196	130	155	167	11	T3	M6×16
CH12-170W	12	170/15min	42/10HR	197	166	174	174	13.8	T3	M6×16
CH12-300W	12	300/15min	80/10HR	260	169	211	215	25	T3	M6×16
CH12-370W	12	370/15min	95/10HR	307	169	211	215	31	T3	M6×16
CH12-420W	12	420/15min	110/10HR	331	174	214	219	33.2	T4	M8×16
CH12-470W	12	470/15min	135/10HR	407	174	210	233	39	T5	M8×16
CH12-520W	12	520/15min	150/10HR	484	171	241	241	47	T4	M8×16
CH12-680W	12	680/15min	170/10HR	532	206	216	222	58.5	T5	M8×16
CH12-770W	12	770/15min	220/10HR	522	240	219	224	68	T6	M8×16
CH12-800W	12	800/15min	230/10HR	520	269	204	209	70	T6	M8×16
CH12-900W	12	900/15min	255/10HR	520	268	220	225	79	T6	M8×16

Lithium Iron Phosphate (LiFePO4) Battery, own the longest life.



- > Voltage: 12V, 24V, 48V, 96V, 250V, 600V, etc.
- > Capacity: upto 12V200Ah, 24V100Ah, 48V100Ah, 600V200Ah, 250V20Ah, 48V20000Ah, etc.
- > Designed floating service life: over 20years @25 °C
- > Cyclic usage: 100%DOD, >2000 cycles; 80%DOD, >3000 cycles

SUMMARY for Lithium battery

Due to the demand for energy saving strategies, CSPower delivers a full range of battery power systems with multiple nominal voltages (12V/24V/48V/240V/etc.). It is smaller in size and lighter in weight, but it has longer cycle life, temperature durability is stronger, and energy storage is more efficient. With the accurate and reliable battery management system (BMS), our lithium battery power system is a better solution for achieving highest efficiency and reliability. After years of practice, we have the most extensive experience in backup power supply in the industry, and we will continue to provide the best battery products.

Advantages for LiFePO4 Battery

- ▶ Energy density is high. The volume and weight of lithium battery is 1/3 to 1/4 of the traditional lead acid battery with the same capacity.
- ▶ Energy conversion rate is 15% higher than that of a traditional lead acid battery, the advantage of energy saving is obvious. Self-discharge rate < 2% per month.
- ▶ Broad temperature adaptability. Products perform well at a temperature of -20°C to 60°C, without air conditioning system.
- ▶ Cycle durability for a single cell is 2000 cycles, which is 3 to 4 times more than the cycle durability of a traditional lead acid battery.
- ▶ Higher discharge rate, faster charging and discharging when there is a need for backup power supply for a period of 10 hours or less, we could reduce up to 50% of the capacity configuration, comparing to lead acid battery.
- ▶ High security. Our lithium battery is safe, electro chemical materials are stable, no fire or explosion under extreme conditions such as high temperature, short circuit, drop impact, piercing, etc
- ▶ Increased Flexibility: Modular Design enables deployment of up to four batteries in series and up to ten battery in parallel.
- ▶ Optional LCD digital display. Optional LCD digital display can install in the front panel of battery and show battery voltage, capacity, current information, etc.

BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short detection function
- Balance function
- Temperature protection

Application

- Electric Vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting and so on

HLC SERIES LEAD CARBON BATTERIES

- > Voltage: 6V, 12V
- > Capacity: 6V400Ah, 12V250Ah.
- > Cyclic usage: 80% DOD, >2000 cycles.

APPLICATIONS

Home energy storage system
 Smart power grid and micro-grid system
 Distributed energy storage system
 Solar and wind energy storage system
 Electric power vehicles
 Solar power generation grid or off-grid energy storage system
 Generation and battery hybrid energy storage system



ADVANTAGES

HLC series lead-carbon batteries use functional activated carbon and graphene as carbon materials, which are added to the negative plate of the battery to make lead carbon batteries have the advantages of both lead-acid batteries and super capacitors. It not only improves the ability of rapid charge and discharge, but also greatly prolongs the battery life, more than 2000 cycles at 80%DOD. It is specially designed for daily heavy cyclic discharge use with feature low boost charge voltage, so is more suitable for the application of PSOC.

CSPower MODEL	Voltage (V)	Capacity (Ah) C20	Battery Dimension (mm)				Weight (kg) (±3%)	Terminal	Bolt
			Length	Width	Height	Total Height			
<u>HLC6-200</u>	6	200	306	168	220	226	31.0	T5	M8
<u>HLC6-205</u>	6	205	260	180	246	252	30.0	T5	M8
<u>HLC6-225</u>	6	225	243	187	275	275	32.5	T5	M8
<u>HLC6-230</u>	6	230	260	180	265	272	34.2	T5	M8
<u>HLC6-280</u>	6	280	295	178	346	350	45.8	T5	M8
<u>HLC6-300</u>	6	300	295	178	346	350	46.5	T5	M8
<u>HLC6-340</u>	6	340	295	178	404	408	55.0	T5	M8
<u>HLC6-400</u>	6	400	295	178	404	408	57.3	T5	M8
<u>HLC12-20</u>	12	20	166	175	126	126	8.4	T2	M6
<u>HLC12-24</u>	12	24	165	126	174	174	8.6	T2	M6
<u>HLC12-30</u>	12	30	196	130	155	167	10.2	T3	M6
<u>HLC12-35</u>	12	35	198	166	174	174	14	T2	M6
<u>HLC12-50</u>	12	50	229	138	208	212	17.7	T3	M6
<u>HLC12-60</u>	12	60	350	167	178	178	23.0	T3	M6
<u>HLC12-75</u>	12	75	260	169	211	215	26.0	T3	M6
<u>HLC12-90</u>	12	90	307	169	211	215	30.0	T3	M6
<u>HLC12-100</u>	12	100	331	176	215	219	33.0	T4	M8
<u>HLC12-110</u>	12	110	407	174	208	233	39.0	T5	M8
<u>HLC12-120</u>	12	120	341	173	283	287	40.5	T5	M8
<u>HLC12-135</u>	12	135	484	171	241	241	45.5	T4	M8
<u>HLC12-180</u>	12	180	532	206	215	219	58.5	T4	M8
<u>HLC12-200</u>	12	200	522	240	219	223	64.8	T5	M8
<u>HLC12-220</u>	12	220	520	268	203	207	70.8	T5	M8
<u>HLC12-250</u>	12	250	520	268	220	224	77.5	T5	M8

START STOP CAR BATTERY

APPLICATION

AGM start-stop battery is widely used for the vehicle with start/stop system.

ADVANTAGES

1. Our AGM start-stop battery technology is successful with patent. Battery CCA is about 40% higher than ordinary battery. And it is with longer cycle life, more suitable for frequent start.
2. Advanced grid production technology, the battery with excellent anti-corrosion performance because of new alloy formula and advanced cold rolled grid technology.
3. Advanced positive formula, and reasonable curing technology, battery's cycle life is improved greatly.
4. Advanced negative formula make battery's charge acceptance significantly improved, and battery can get the feedback current from vehicle more quickly.
5. AGM Technology, the battery has no free liquid electrolyte, it is safe and environment friendly.
6. Reasonable design of internal structure, super high oxygen recombination efficiency, completely maintenance-free.
7. Battery can work at -40 ° C~70° C temperature, battery life is 2 times longer than ordinary starting battery.

	VRL2 60-H5 (6-QTF-60)
	VRL3 70-H6 (6-QTF-70)
	VRL4 80-H7 (6-QTF-80)
	VRL5 92-H8 (6-QTF-92)
	VRL6 105-H9 (6-QTF-105)

Model	Name of National Brand	Rated Voltage (V)	Rated Capacity (C20/Ah)	Reserve Capacity (min)	CCA (A)	Size (mm)			Terminal Type	Weight (Kg)
						L	M	H		
VRL2 60-H5	6-QTF-60	12	60	100	660	242	175	190	AP	18.7±0.3
VRL3 70-H6	6-QTF-70	12	70	120	720	278	175	190	AP	21.5±0.3
VRL4 80-H7	6-QTF-80	12	80	140	800	315	175	190	AP	24.5±0.3
VRL5 92-H8	6-QTF-92	12	92	160	850	353	175	190	AP	27.0±0.3
VRL6 105-H9	6-QTF-105	12	105	190	950	394	175	190	AP	30.0±0.3

Battery Applications



Our advantages

* One of TOP10 manufacturer in Guangdong lead-acid battery industry, and we have own lead plates workshop.

* More than 16 years experience in design, manufacture and export of AGM/GEL battery.

* ISO 9001 and 14001 certificated company, All batteries are complaint with standard ISO, UL, CE approved.

* Complete own production lines from lead material to finished batteries, and control the quality since origin, battery range from 0.8Ah to 3000Ah, 2V/4V/6V/8V/12V all series for choice.

* 100% load testing to ensure uniform capacity, strict quality control from IQC, PQC to QA to ensure defective rate less than 0.1%.

Battery Assembling



CSPower Projects

