

UHG Series



Applications

- Off-Grid Solar System
- Wind Power System
- Inverter System



Deep cycle Gel Batteries for Solar Applications

UHG12 UHG6 UHG2 series designed for true-deep cycle solar applications, with features like thick, pure virgin lead plates (99.996%), heavy-duty over-the-partition welds, super-C additive and a proprietary gel formulation designed for years of cycling long service life. UHG is well-suited to all deep-cycle off-grid solar power system, from commercial to personal, solar sites. UHG can provide the best and reliable service under extreme conditions such as high temperature and frequent power outages for Solar project. UHG is the highly reliable, safe, and maintenance-free option.

Product Features

UHG 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 UHG 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.

- TUHRee years warranty at 35-40°C average
- Able to operate at -20°C to 60°C
- Longer life and higher stability under high temp. environment (no air-con needed)
- Use super-C additives lead plates: Deep discharge recovery capability
- Cycle usage: 50% DOD, 1500 Cycle work in high/cold temp. area.

Construction

- UHG series adopts super corrosion-resistant alloy and unique patented grid structure, so can improve the lead plates corrosion-resistant performance in high temperature.
- It adopts special positive negative lead plates ratio and unique nano gel electrolyte, so can improve battery over potential of hydrogen evolution effectively and high reduce the water loss in high temperature environment.
- Its paste formula is added anti-high temperature expanding agent, so can work continuously in high temperature environment.
- UHG'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.
- UHG 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-temp area. So UHG battery can work very well in severe environment between -40 C-65 C.

Standards

- super expanding agent which ensure battery discharge capacity is higher than other normal battery when work in low temperature
- IEC 60096-2:2004; UHG battery work in -40 °C area, it can work stable and continuously.
- IEC 61247-2014;
- DIN 43539-15:1984;
- DIN 40742-1999;
- UB/T 22473-2008;
- Passed ISO9001,ISO4001
- OHS18001,CE,UL and Golden Sun Certification

Main Parameters Table

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
UHG12-14	12	14	152	99	96	102	3.8	3.9	F1/F2
UHG12-20	12	20	181	77	167	167	6	6.1	T1/L1
UHG12-24	12	24	166	175	126	126	8.3	8.4	M6
UHG12-26	12	26	165	126	174	179	8.4	8.5	M6
UHG12-35	12	35	196	130	155	167	10.5	10.7	M6
UHG12-40	12	40	198	166	174	174	14.0	14.2	M6
UHG12-55	12	55	229	138	208	212	16	16.5	M6
UHG12-70	12	70	350	167	178	178	23.3	23.8	M6
UHG12-75	12	75	260	169	208	227	25	25.5	M6
UHG12-85	12	85	260	169	208	227	26.1	26.6	M6
UHG12-90	12	90	307	169	211	216	28.2	28.7	M6
UHG12-100	12	100	307	169	211	216	30.2	30.7	M6
UHG12-110	12	110	328	172	218	222	32.8	34	M8
UHG12-120	12	120	407	173	210	233	39.2	39.7	M8
UHG12-135	12	135	344	172	280	285	40.8	41.3	M8
UHG12-150	12	150	484	171	241	241	45.5	46	M8
UHG12-180	12	180	532	206	216	222	56	56.5	M8
UHG12-200	12	200	532	206	216	222	58.6	59.1	M8
UHG12-230	12	230	522	240	219	225	65	65.5	M8
UHG12-250	12	250	520	269	203	207	71	71.5	M8
UHG12-300	12	300	520	269	220	226	77	77.5	M8
UHG6-200	6	200	306	168	220	222	30	30.1	M8
UHG6-210	6	210	260	180	247	249	29.5	29.6	M8
UHG6-220	6	220	306	168	220	222	31.5	31.6	M8
UHG6-225	6	225	243	187	275	275	30.5	30.6	M8
UHG6-250	6	250	260	180	265	272	34.5	34.6	M8
UHG6-310	6	310	295	178	346	366	46	46.2	M8
UHG6-330	6	330	295	178	354	360	46.6	46.8	M8
UHG6-380	6	380	295	178	404	410	55.3	55.8	M8
UHG6-420	6	420	295	178	404	410	56.8	57.3	M8
UHG8-170	8	170	260	182	266	271	34.3	34.8	M8
UHG8-200	8	170	260	182	295	300	38.3	38.8	M8

