

Best Partner For Traffic Lights

High Temperature Deep Cycle GEL 12V Battery

HTB series uses the newly developed nano gel electrolyte, with super C additive and heavy-duty plate design inside, long service life, and can provide the best and reliable service under extreme conditions such as high temperature and frequent power outages. According to the technology and advantages it good apply to the control of traffic lights system.



Complied Standards

IEC60896-21/22	BS6290part4
JISC8704	GB/T19638
IEC61427	CE/ISO



General features

- Able to operate at -40~60°C
- DOD 50% 1500 times Cycles
- Integrated design to ensure the best uniformity and reliability
- Long life and high stability under hightemp. environment (no cooling needed)
- Use super-C additives:
Deep discharge recovery capability

Battery Construction

Component	Positive plate	Negative plate	Container & Cover	Safety valve
Features	Thick high Sn low Ca grid with Special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0optional)	Flame Si-Rubber and aging resistance
Component	Terminal	Separator	Electrolyte	Pillar seal
Features	Female Copper Insert	Advanced PVC /GEL separator for high pressure cell desbm	German Evonik Silicon GEL	Two layers epoxy resin seal

Technical Specifications

Nominal Voltage	12V(6 Cells Per Unit)	
Design Floating Life @25°C	20 Years	
Nominal Capacity @25°C(20 hour rate@1.8V)	100%C (Ah)	
Capacity @25°C	10hour rate (1.8V) 90%C (Ah)	
	5 hour rate (1.8V) 80%C(Ah)	
	1 hour rate (1.75V) 58%C(Ah)	
Internal Resistance	Full Charged Battery@25°C	≤0.02*C(mΩ)
	Discharge	-25°C~60°C
Ambient Temperature	Charge	-25°C~60°C
	Storage	-25°C~45°C
	Max.Discharge Current@25°C	6C (5s)
Capacity affected by Temperature (10 hour)	40°C	108%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°Cper Month	3%	
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than C*0.25A Voltage 2.25-2.3V
	Cycle Use	Initial Charging Current Less than C*0.25A Voltage 2.37-2.4V

Best Partner For Traffic Lights

Popular item for Traffic Lights

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs
			Length	Width	Height	Total Height		
HTB12-14	12	14	152	99	96	102	3.8	3.39
HTB12-20	12	20	181	77	167	167	6	6.1
HTB12-24	12	24	166	175	126	126	8.3	8.4
HTB12-35	12	35	196	130	155	167	10.5	10.7
HTB12-55	12	55	229	138	208	212	16	16.5
HTB12-75	12	75	260	169	208	227	25	25.5
HTB12-100	12	100	307	169	211	216	30.2	30.7
HTB12-135	12	135	344	172	280	285	40.8	41.3
HTB12-150	12	150	484	171	241	241	45.5	46



Performance Characteristics

