

AGM-Batterie

Model: WT-SA12-12 (12V 12AH)

Anwendungsbereiche

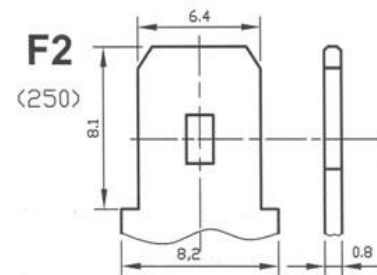
- Solaranlagen
- Windkraft
- Kommunikationstechnik
- Sicherheits-und Kontrollsysteme
- Elektromobilität



Produktinformationen

- Hohe Qualität und Verarbeitung
- Höhere Widerstandsfähigkeit gegen Tiefentladung
- Längere Lebensdauer speziell für Zyklenbetrieb
- Hohe Leistungsdichte, extreme geringe Eigententladung

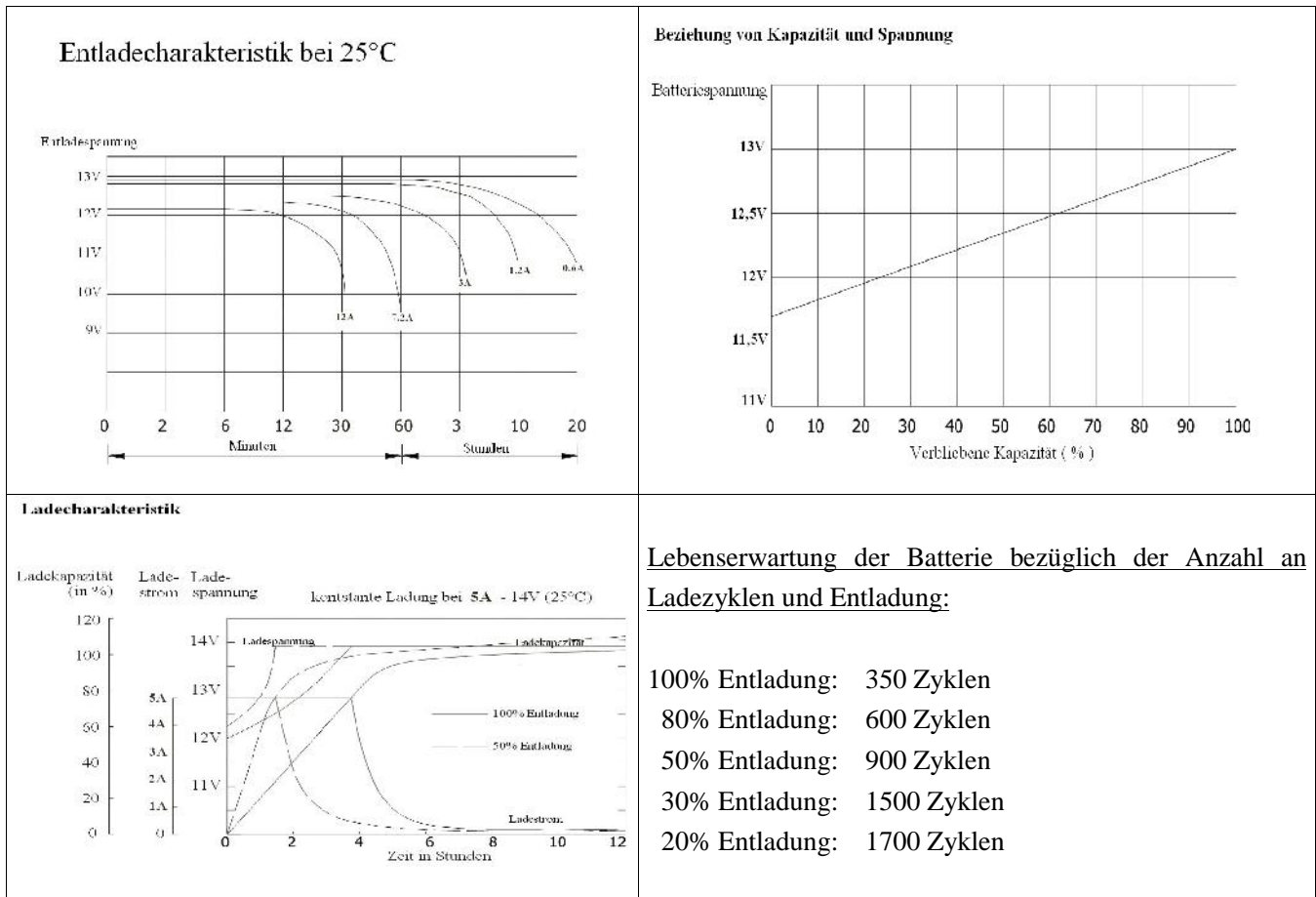
Anschlussstyp



Nominalspannung	12V			
Ladekapazität	12AH			
Dimensionen	Länge	Breite	Höhe ohne Terminal	Gesamthöhe
	151mm	98mm	95mm	99mm
Kapazität (25°C)	10HR (1,2A)	20HR (0,6A)	120HR (0,1A)	240HR (0,05A)
	12AH	12.8AH	13.1AH	13.3AH
Gewicht	3,45Kg			
Eigenwiderstand	Voll geladen bei 25°C: 17m			
Kapazität Temperaturabhängig (10HR)	40°C	25°C	0°C	
	103%	100%	86%	

Zyklische Ladung	<p>Für abwechselndes Laden und Entladen der Batterie gehen Sie wie folgt vor:</p> <ol style="list-style-type: none"> 1. Beschränken sie den Ladestrom auf maximal 3A 2. Laden Sie die Batterie bis sie unter Beladung 14,1V bis 14,4V erreicht 3. Halten Sie die Batteriespannung bei 14,1V-14,4V bis sich der Strom für mindestens drei Stunden auf unter 0,072A reduziert hat 4. Der Temperaturkoeffizient beim Laden beträgt -30mV/°C
Erhaltungsladung	<p>Um die Batterie im maximalen Ladezustand zu erhalten gehen Sie wie folgt vor:</p> <ol style="list-style-type: none"> 1. Halten Sie die Batteriespannung bei 13,6V bis 13,8V konstant und beschränken sie den Ladestrom auf 3A. Solange diese Spannung gehalten wird, reduziert sich der Ladestrom automatisch und hält die Batterie voll geladen. 2. Der Temperaturkoeffizient beim Laden beträgt -18mV/°C
<p>Anmerkung: Die Batterie sollte, wenn gelagert, mindestens einmal alle 9 Monate geladen werden, um eine mögliche Kapazitätsverringeringung zu verhindern. Andernfalls besteht ein möglicher Kapazitätsverlust durch Sulfatierung.</p>	

Konstanter Entladestrom bei 25°C (in Ampere)										
Spannung / Zeit	1h	2h	4h	8h	10h	20h	48h	96h	120h	240h
10,2V	7.030	4.351	2.672	1.479	1.224	0.630	0.288	0.151	0.125	0.064
10,5V	6.666	4.098	2.550	1.467	1.218	0.624	0.287	0.150	0.124	0.064
10,8V	6.363	3.852	2.424	1.454	1.212	0.618	0.283	0.148	0.123	0.063
11,1V	5.896	3.606	2.298	1.418	1.194	0.612	0.279	0.148	0.121	0.062
11,4V	5.496	3.354	2.166	1.376	1.176	0.600	0.275	0.147	0.119	0.062



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Solar battery (Gel)

Model: WT-SG55-12 (12V 55AH)

Application

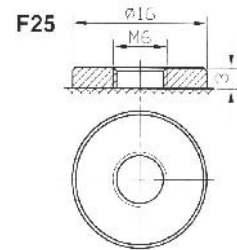
- Solar system
- Wind system
- Communication equipment
- Security and control equipment
- Mobile electrical devices



General features

- Excellent recovery from deep discharge
- Extremely low self-discharge rate
- Longer life in deep cycle applications
- High power density and quality

Terminal



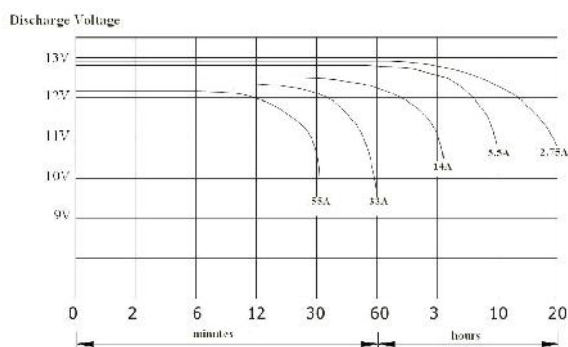
Nominal voltage	12V			
Nominal capacity	55AH			
Dimensions	length	width	container height	total height
	229mm	139mm	208mm	228mm
Rated Capacity (25°C)	10HR (5.5A)	20HR (2.75A)	120HR (0.458A)	240HR (0.229A)
	55AH	56.1AH	58AH	59.4AH
Weight	17.5Kg			
Internal Resistance	Fully charged at 25°C: 8.97m			
Capacity affected by Temperature (10HR)	40°C	25°C	0°C	
	103%	100%	86%	

Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 11A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77F). 3. Hold at 14.1V to 14.4V until current drop to under 0.33A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 11A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 9 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	

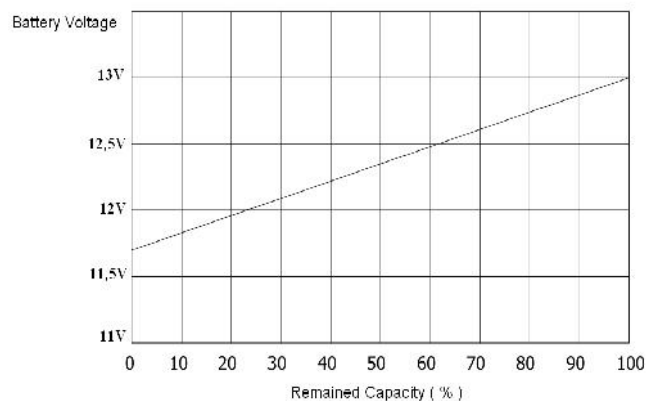
Constant Discharge Data Sheet (Amperes at 25°C)

Voltage / Time	1h	2h	4h	8h	10h	20h	48h	96h	120h	240h
10,2V	31.90	19.75	12.13	6.710	5.555	2.860	1.306	0.685	0.569	0.292
10,5V	30.25	18.60	11.57	6.655	5.528	2.833	1.301	0.679	0.564	0.289
10,8V	28.88	17.48	11.00	6.600	5.500	2.805	1.284	0.674	0.558	0.286
11,1V	26.76	16.36	10.43	6.435	5.418	2.778	1.265	0.671	0.550	0.283
11,4V	24.94	15.22	9.829	6.243	5.335	2.723	1.246	0.668	0.542	0.281

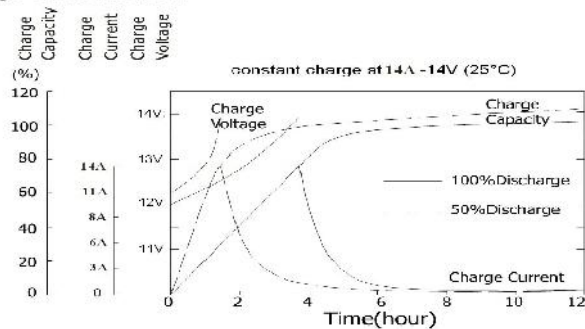
Discharge Characteristics 25°C



Relationship of OCV and state of charge



Charge Characteristic



Life expectancy cycle use

- 100% depth of discharge: 350 cycles
- 80% depth of discharge: 600 cycles
- 50% depth of discharge: 900 cycles
- 30% depth of discharge: 1500 cycles
- 20% depth of discharge: 1700 cycles



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Solar battery (Gel)

Model: WT-SG75-12 (12V 75AH)

Application

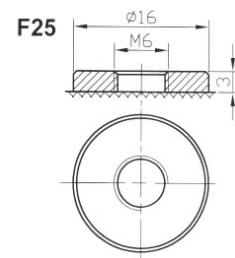
- Solar system
- Wind system
- Communication equipment
- Security and control equipment
- Mobile electrical devices



General features

- Excellent recovery from deep discharge
- Extremely low self-discharge rate
- Longer life in deep cycle applications
- High power density and quality

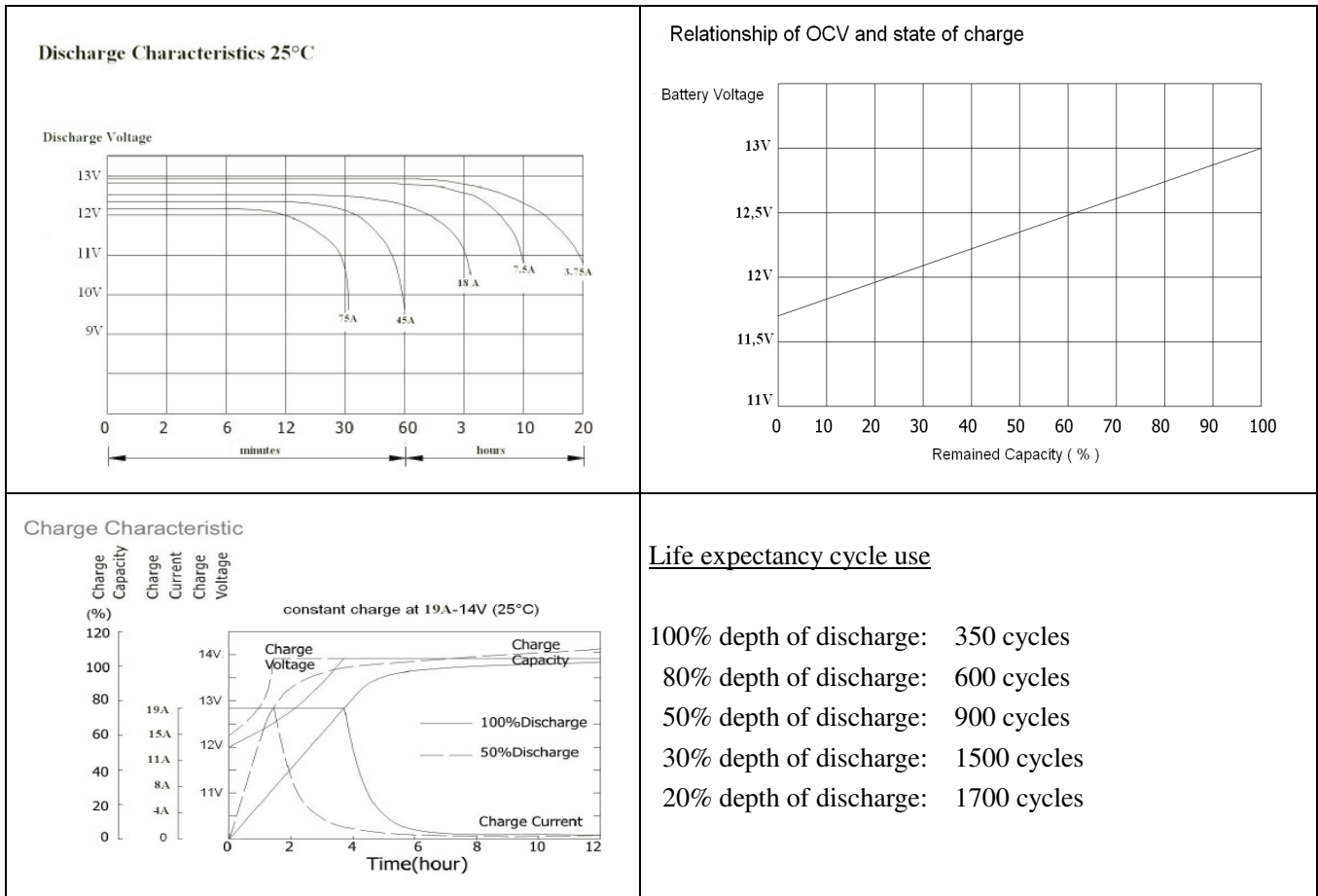
Terminal



Nominal voltage	12V			
Nominal capacity	75AH			
Dimensions	length	width	container height	total height
	260mm	168mm	208mm	228mm
Rated Capacity (25°C)	10HR (7.5A)	20HR (3.75A)	120HR (0.625A)	240HR (0.31A)
	75AH	76.5AH	77.25AH	78AH
Weight	23.2Kg			
Internal Resistance	Fully charged at 25°C: 0,005Ohm			
Capacity affected by Temperature (10HR)	40°C	25°C	0°C	
	103%	100%	86%	

Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 15A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77F). 3. Hold at 14.1V to 14.4V until current drop to under 0.45A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 15A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 9 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	

Constant Discharge Data Sheet (Amperes at 25°C)										
Voltage / Time	1h	2h	4h	8h	10h	20h	48h	96h	120h	240h
10,2V	43.50	26.93	16.54	9.150	7.575	3.900	1.782	0.934	0.777	0.398
10,5V	41.25	25.36	15.78	9.075	7.538	3.863	1.774	0.927	0.769	0.394
10,8V	39.38	23.84	15.00	9.000	7.500	3.825	1.752	0.919	0.762	0.390
11,1V	36.49	22.32	14.22	8.775	7.388	3.788	1.725	0.915	0.750	0.387
11,4V	34.02	20.75	13.40	8.513	7.275	3.713	1.699	0.912	0.739	0.383



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Solar battery (Gel)

Model: WT-SG100-12 (12V100AH)

Application

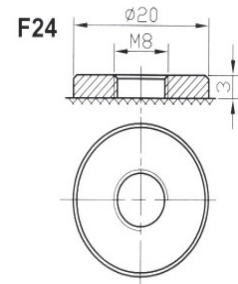
- Solar system
- Wind system
- Communication equipment
- Security and control equipment
- Mobile electrical devices



General features

- Excellent recovery from deep discharge
- Extremely low self-discharge rate
- Longer life in deep cycle applications
- High power density and quality

Terminal



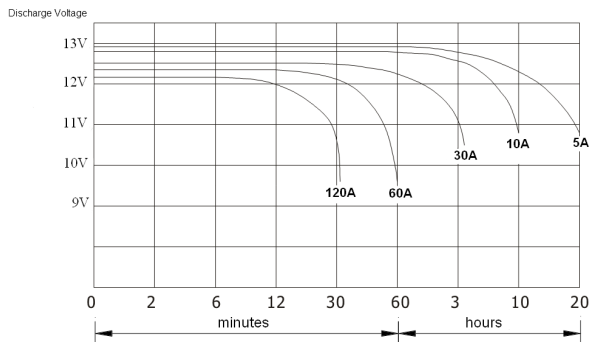
Nominal voltage	12V			
Nominal capacity	100AH			
Dimensions	length	width	container height	total height
	330mm	170mm	217mm	235mm
Rated Capacity (25°C)	10HR (10A)	20HR (515A)	120HR (0,88A)	240HR (0,45A)
	100AH	103AH	106AH	110AH
Weight	31Kg			
Internal Resistance	Fully charged at 25°C: 0,0045Ohm			
Capacity affected by Temperature (10HR)	40°C	25°C	0°C	
	103%	100%	86%	

Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 20A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77F). 3. Hold at 14.1V to 14.4V until current drop to under 0.6A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 20A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 9 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	

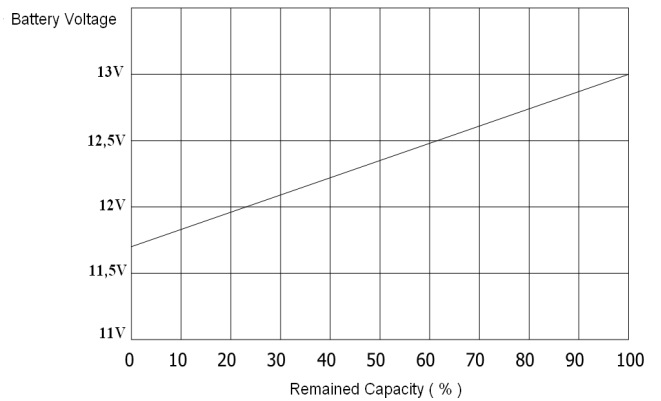
Constant Discharge Data Sheet (Amperes at 25°C)

Voltage / Time	1h	2h	4h	8h	10h	20h	48h	96h	120h	240h
10,2V	64.75	35.74	21.98	12.41	10.10	5.44	2.15	1.08	0.85	0.43
10,5V	62.97	33.76	20.89	12.00	10.05	5.38	2.09	1.05	0.83	0.41
10,8V	61.29	31.68	19.90	11.59	10.00	5.32	2.03	1.02	0.81	0.40
11,1V	59.50	30.10	18.91	11.19	9.95	5.26	1.96	0.99	0.79	0.39
11,4V	57.82	27.62	17.82	10.77	9.90	5.19	1.90	0.96	0.77	0.38

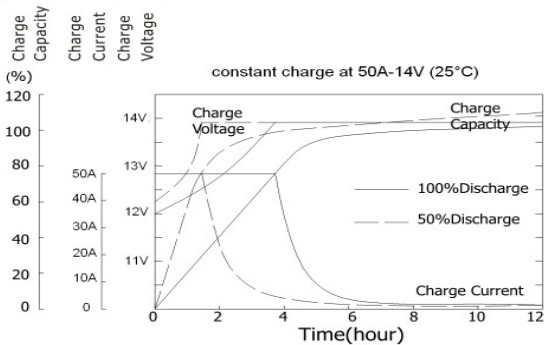
Discharge Characteristic 25°C



Relationship of OCV and state of charge



Charge Characteristic



Life expectancy cycle use

- 100% depth of discharge: 350 cycles
- 80% depth of discharge: 600 cycles
- 50% depth of discharge: 900 cycles
- 30% depth of discharge: 1500 cycles
- 20% depth of discharge: 1700 cycles



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Solar battery (Gel)

Model: WT-SG200-12 (12V200AH)

Application

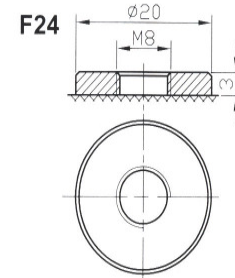
- Solar system
- Wind system
- Communication equipment
- Security and control equipment
- Mobile electrical devices



General features

- Excellent recovery from deep discharge
- Extremely low self-discharge rate
- Longer life in deep cycle applications
- High power density and quality

Terminal



Nominal voltage	12V			
Nominal capacity	200AH			
Dimensions	length	width	container height	total height
	523mm	240mm	219mm	245mm
Rated Capacity (25°C)	10HR (20A)	20HR (10,3A)	120HR (1,86A)	240HR (1,03A)
	200AH	206AH	224AH	231AH
Weight	63Kg			
Internal Resistance	Fully charged at 25°C: 0,0031Ohm			
Capacity affected by Temperature (10HR)	40°C	25°C	0°C	
	103%	100%	86%	

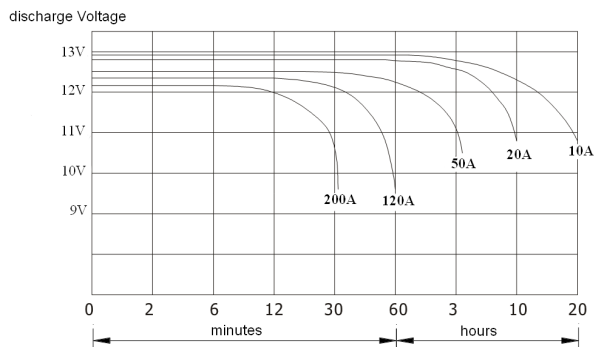
Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 40A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77F). 3. Hold at 14.1V to 14.4V until current drop to under 1.2A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 40A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C

NOTE : The battery should be charged within 9 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation

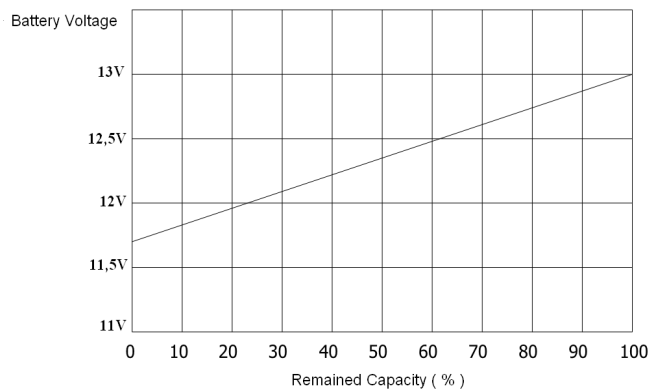
Constant Discharge Data Sheet (Amperes at 25°C)

Voltage / Time	1h	2h	4h	8h	10h	20h	48h	96h	120h	240h
10,2V	116.0	71.8	44.1	24.4	20.2	10.4	4.75	2.49	2.07	1.06
10,5V	110.0	67.6	42.0	24.2	20.1	10.3	4.73	2.47	2.05	1.05
10,8V	105.0	63.5	40.0	24.0	20.0	10.2	4.67	2.45	2.03	1.04
11,1V	97.30	59.5	37.9	23.4	19.7	10.1	4.60	2.44	2.00	1.03
11,4V	90.70	55.3	35.7	22.7	19.4	9.90	4.53	2.43	1.97	1.02

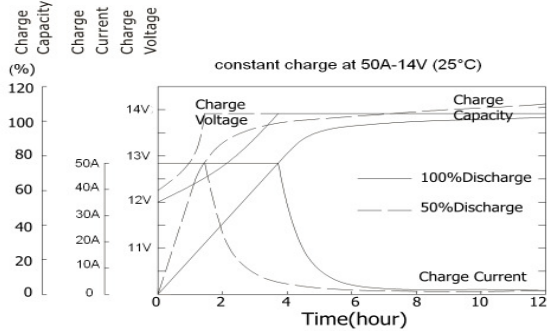
Discharge Characteristics 25°C



Relationship of OCV and state of charge



Charge Characteristic



Life expectancy cycle use

- 100% depth of discharge: 350 cycles
- 80% depth of discharge: 600 cycles
- 50% depth of discharge: 900 cycles
- 30% depth of discharge: 1500 cycles
- 20% depth of discharge: 1700 cycles



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