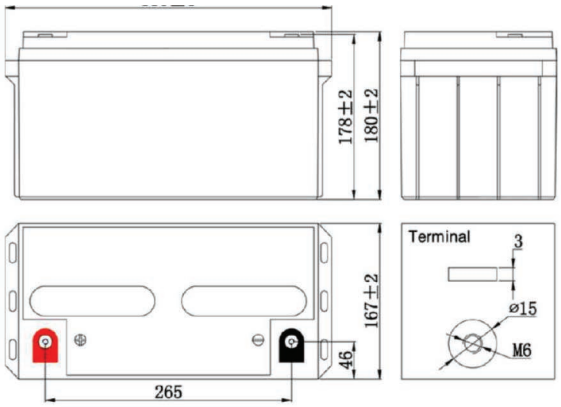
DC12065

12V65Ah Sealed Lead Acid Battery

POWER SYSTEM

Features

Nominal Voltage (V)	12V (6 cells in series)	
Rated Capacity	65.0Ah	(C_{10}, 180V/cell)
Dimensions (mm)	Length Width Height Total Height	350 ± 3mm 167 ± 2mm 180 ± 2mm 180 ± 2mm
Nominal Capacity @ 25°C (Ah)	20 Hour rate (3.543 to 10.8 volts) 10 Hour rate (6.630A to 10.8 volts) 5 Hour rate (11.38A to 10.8 volts) 1 Hour rate (41.15A to 10.5Volts)	70.8Ah 66.4Ah 56.9Ah 41.1Ah
Approx. Weigth	21.0kg	
Terminal	T12	
Max. Discharge Current	520A @ 25°C (5s)	
Internal Resistance	6.5mΩ @25°C (Full Charged Battery)	
DOD 80%	≥450 Cycles @ 25°C	
Ambient Temperature	Charge: -15°C ~ 50°C Discharge: -20°C ~ 60°C Storage: -20°C ~ 50°C	
Container Material	ABS, UL94-HB, UL94-V0, Optional	
Self Discharge	VRLA batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.	



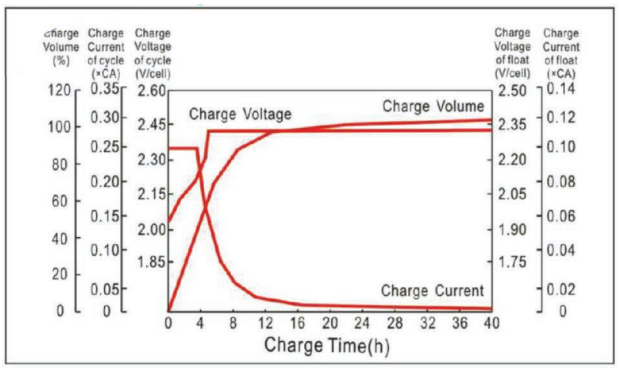
Certification

MH28792

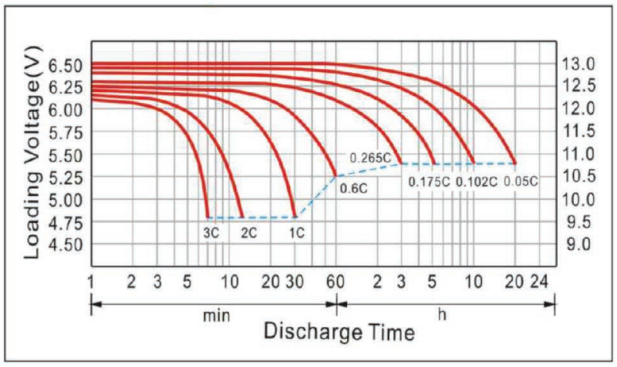
Constant Current Discharge Characteristics (A), (25°C)											
F.V/TIME	**5min**	**10min**	**15min**	**30min**	**60min**	**2H**	**3H**	**5H**	**8H**	**10H**	**20H**
1.60V/cell	221.0	147.2	117.9	73.13	42.25	25.25	17.94	12.01	8.073	6.890	3.770
1.70V/cell	198.3	135.5	112.1	71.18	41.67	24.93	17.62	11.73	7.943	6.793	3.673
1.75V/cell	178.8	125.1	106.9	69.23	41.15	24.60	17.42	11.55	7.865	6.728	3.608
1.80V/cell	159.3	114.1	100.4	66.56	40.30	24.26	17.23	11.38	7.748	6.630	3.543

Constant Wattage Discharge Characteristics (Watt), (25°C)											
F.V/TIME	**5min**	**10min**	**15min**	**30min**	**60min**	**2H**	**3H**	**5H**	**8H**	**10H**	**20H**
1.60V/cell	381.2	262.6	214.2	136.5	80.98	49.24	35.58	23.88	16.07	13.72	7.534
1.70V/cell	350.2	246.2	206.5	134.0	80.82	48.82	35.02	23.37	15.85	13.56	7.345
1.75V/cell	320.3	230.4	198.7	131.5	79.55	48.38	34.72	23.08	15.73	13.46	7.215
1.80V/cell	289.3	212.9	127.6	127.6	78.25	48.12	34.42	22.75	15.50	13.26	7.085

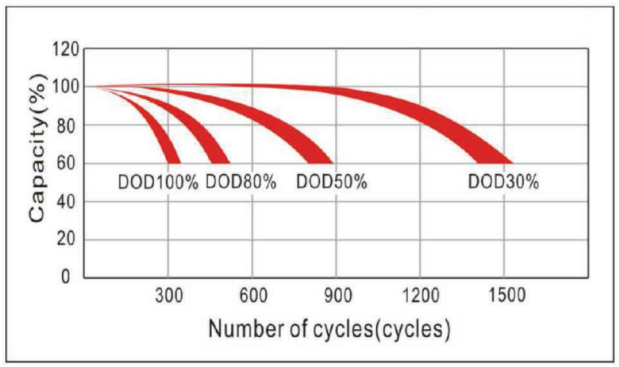
Charge Characteristics Curve



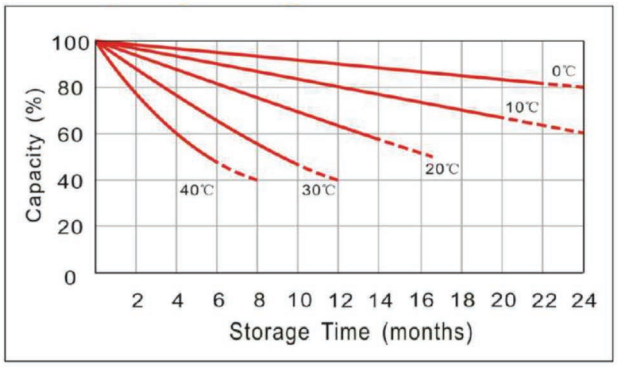
Discharge Characteristics Curve



Cycle service life in relation to depth of discharge



Capacity Storage Characteristics



Capacity factos with Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	50°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Maintenance & Cautions

Charging Procedure

Application	Charging method	Charge voltage at 25°C	Temperature compensation coefficient of charging voltage	Max. charging current	Temperature
For stanby power source	Constant voltage charging (with current restriction)	2.25~2.30 V/cell	-3mV/°C/cell	0.2CA	-15~50°C
For cycle service		2.40~2.45 V/cell	-4mV/°C/cell	0.3CA	

Float service
Every month, recommend inspection every battery voltage.
Every three months, recommend equalization charge for one tiem. Equalization charge method: Step 1: Discharge: 100% rate capacity discharge. Step 2: Charge: Max. current 0.3CA, constant voltage 2.40~2.45V/cell charge 24h.

Cycle service
Avoid battery over discharge, especially battery series connection use.
Charged with recommended voltage, ensure battery can be full recharged.
Ingerneral, recharge capacity should be 1.1~1.15 times discharge capacity.

Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

Charge the batteries at least once every six months, if they are stored at 25°C. Charging Method:
Constant Voltage: -0.2C x 2h+2.4~2.45V/cell x 24h, Max. current 0.25CA
Constant Voltage: -0.2C x 2h+0.1C x 12h
Fast: -0.2C x 2h+0.3C x 4h

Termnial of torque:

Bolt	M5	M6	M8
Termnial	T3, T10	T4, T7, T11, T12, T13	T5, T6, T8, T9, T14
Torque	6~7N.m	8~10N.m	10~12N.m