

Enerjinin parmak izi!



MEGACELL
LITHIUM BATTERY

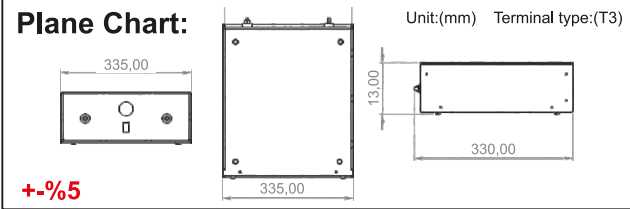
 0312 394 06 38

Akusan A.Ş. | Modüled Elektronik A.Ş. | B-Het Mühendislik

12.8 V 100 Ah LiFePO4



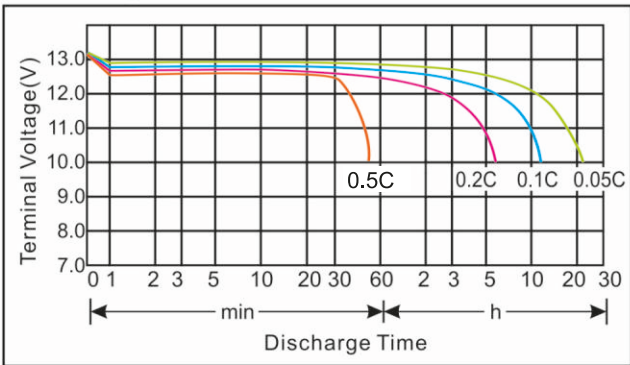
- Extremely durable and reliable
- High charging efficiency with high current
- Improved cycle life performance
- Improved 100% Domestic BMS Technology
- Vibration resistant (suitable for mobile applications)
- Series and parallel connection capability



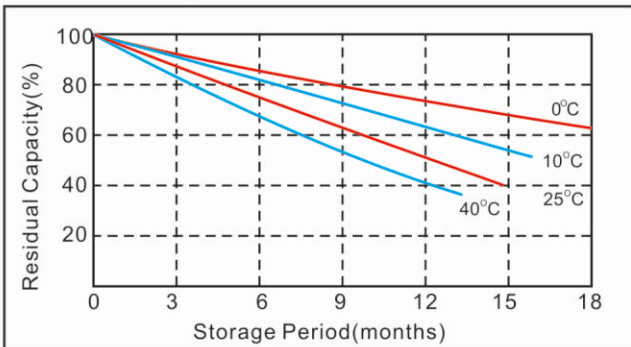
Parameter Chart:

Volts		12V	
Capacity(25°C)	10 hours rate (10A)	100Ah	
Internal Resistance	Full Charged Battery 25°C	≤ 20mΩ	
Capacity Affected By Temperature (at 0.5C)	40°C	101%	
	25°C	100 %	
	0°C	93 %	
	-20°C	80 %	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91 %	
	Capacity After 6 Months Storage	82 %	
	Capacity After 12 Months Storage	60 %	
Charge (Constant Voltage)	Cycle (25°C)	Recomended Initial Charging Current Less Than 30A Voltage 14,2 - 14,6 V	
Discharge Current (25°C)	50A (Max. continuous) ; 100A (5 Seconds)		
Weight (Approx)		12 kg +/- %10	

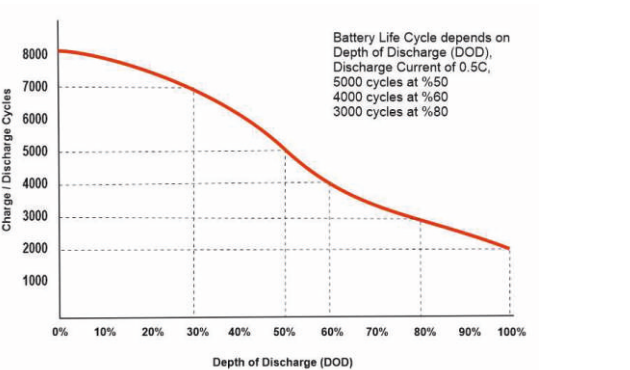
Discharge Current 25°C



Residual Capacity



Cycle service life in relation to the depth of discharge



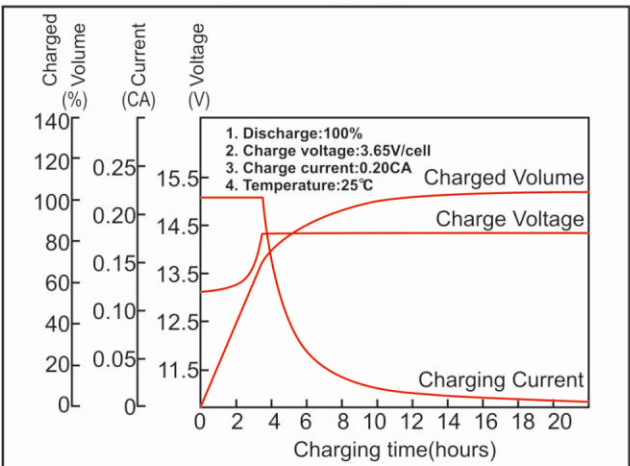
Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
10V	100	50	33.3	25	20	12.5	10	5

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
10V	1200	600	400	300	240	150	128	64

Constant voltage charging characteristics



Capacity Factors With Different Temperature

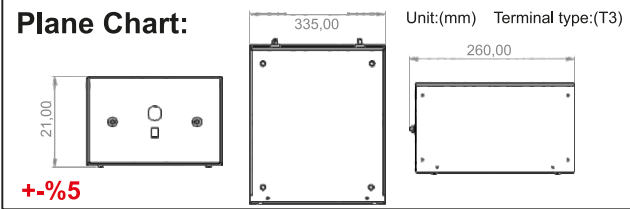
Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Li Battery	12V	73%	82%	93%	95%	97%	100%	100%	100%	101%	102%

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

12.8 V 150 Ah LiFePO4



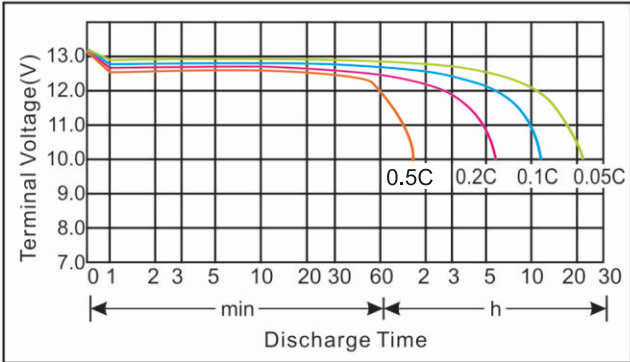
- Extremely durable and reliable
- High charging efficiency with high current
- Improved cycle life performance
- Improved 100% Domestic BMS Technology
- Vibration resistant (suitable for mobile applications)
- Series and parallel connection capability



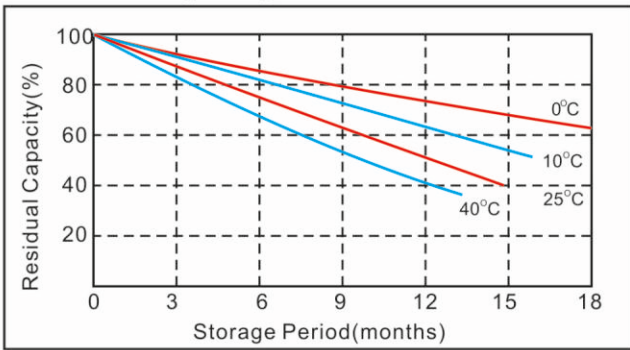
Parameter Chart:

Volts		12V	
Capacity(25°C)	10 hours rate (15A)	150Ah	
Internal Resistance	Full Charged Battery 25°C	≤ 15mΩ	
Capacity Affected By Temperature	40°C	101%	
	25°C	100 %	
	0°C	93 %	
	-20°C	80 %	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91 %	
	Capacity After 6 Months Storage	82 %	
	Capacity After 12 Months Storage	60 %	
Charge (Constant Voltage)	Cycle (25°C)	Recommended Initial Charging Current Less Than 45A Voltage 14,2 - 14,6 V	
Discharge Current (25°C)	75A (Max. continuous) 150A (5 seconds)		
Weight (Approx)		17 kg +/- %10	

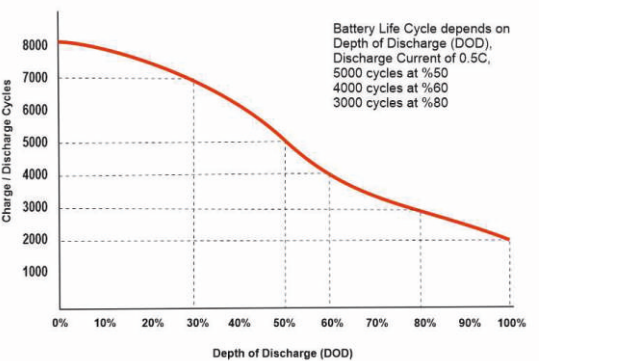
Discharge Current 25°C



Residual Capacity



Cycle service life in relation to the depth of discharge



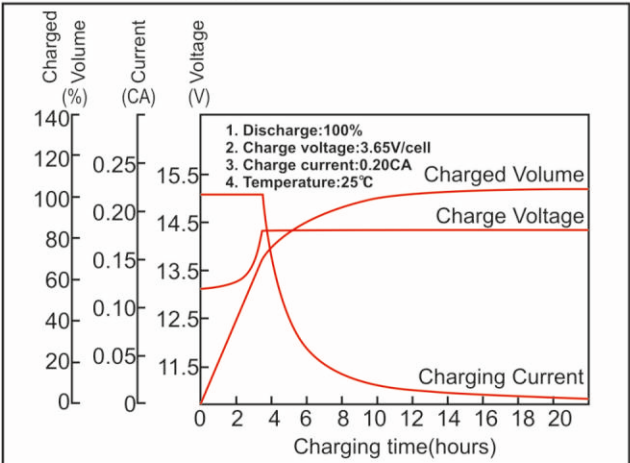
Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	2h	3h	4h	5h	8h	10h	20h
10V	100	66.7	50	40	25	20	10

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	2h	3h	4h	5h	8h	10h	20h
10V	1200	800	600	480	300	256	128

Constant voltage charging characteristics



Capacity Factors With Different Temperature

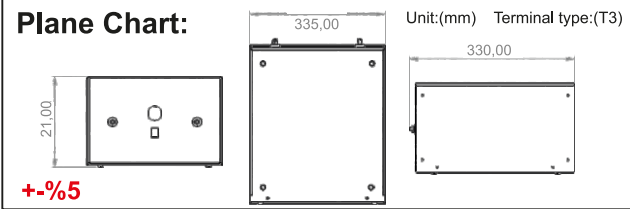
Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Li Battery	12V	73%	82%	93%	95%	97%	100%	100%	100%	101%	102%

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

12.8 V 200 Ah LiFePO4



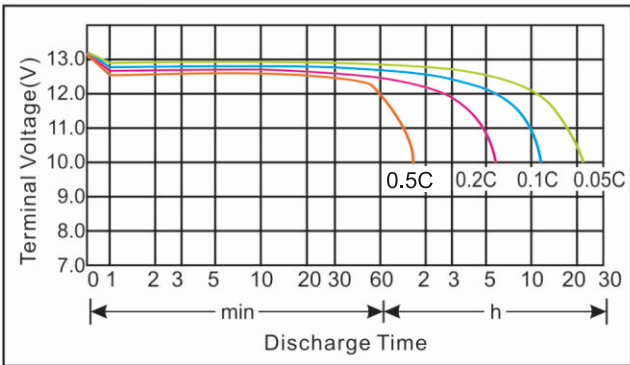
- Extremely durable and reliable
- High charging efficiency with high current
- Improved cycle life performance
- Improved 100% Domestic BMS Technology
- Vibration resistant (suitable for mobile applications)
- Series and parallel connection capability



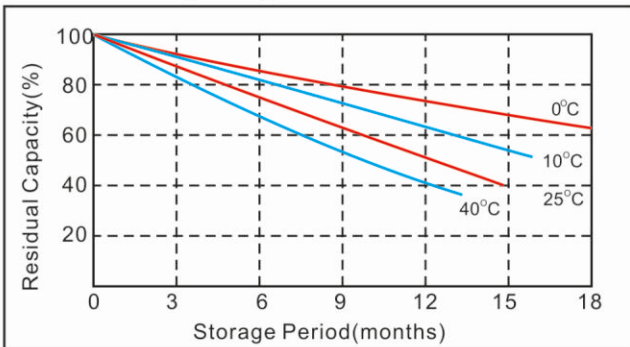
Parameter Chart:

Volts		12V	
Capacity(25°C)	10 hours rate (20A)	200Ah	
Internal Resistance	Full Charged Battery 25°C	≤ 15mΩ	
Capacity Affected By Temperature	40°C	101%	
	25°C	100 %	
	0°C	93 %	
	-20°C	80 %	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91 %	
	Capacity After 6 Months Storage	82 %	
	Capacity After 12 Months Storage	60 %	
Charge (Constant Voltage)	Cycle (25°C)	Recomended Initial Charging Current Less Than 60A Voltage 14,2 - 14,6 V	
Discharge Current (25°C)	60A (Recomended conts. discharge current) 150A (5sn / max. discharge current)		
Weight (Approx)		23 kg +/- %10	

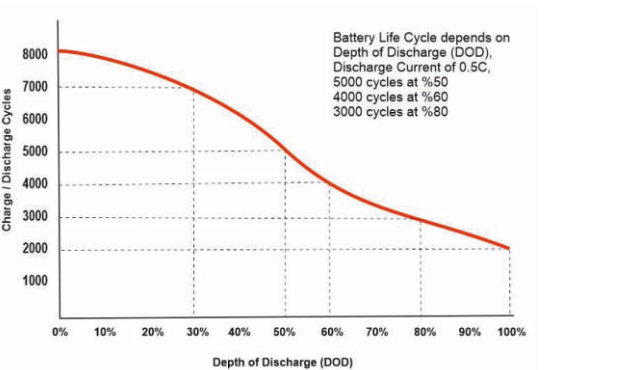
Discharge Current 25°C



Residual Capacity



Cycle service life in relation to the depth of discharge



Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	2h	3h	4h	5h	8h	10h	20h
10V	100	66.7	50	40	25	20	10

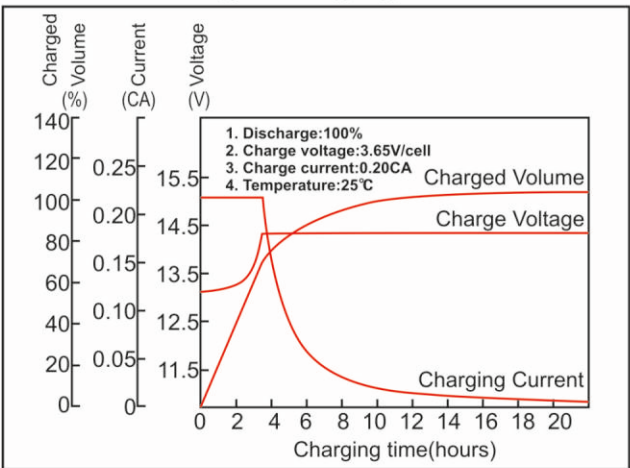
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	2h	3h	4h	5h	8h	10h	20h
10V	1200	800	600	480	300	256	128

Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Li Battery	12V	73%	82%	93%	95%	97%	100%	100%	100%	101%	102%

Constant voltage charging characteristics

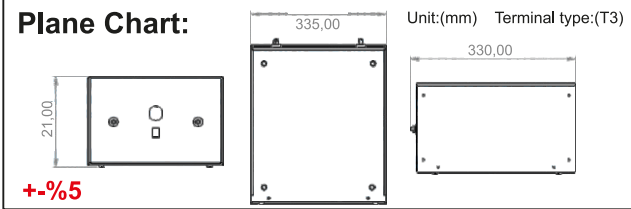


★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

25,6 V 100 Ah LiFePO4



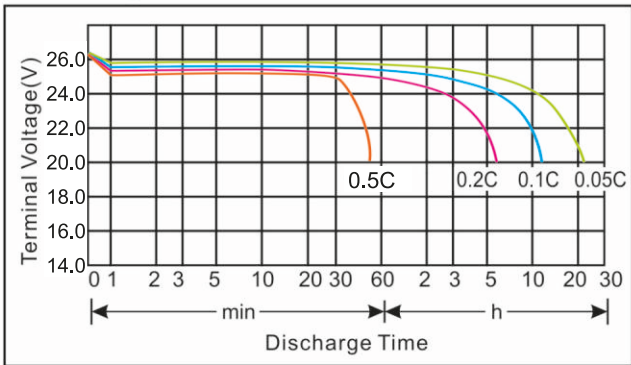
- Extremely durable and reliable
- High charging efficiency with high current
- Improved cycle life performance
- Improved 100% Domestic BMS Technology
- Vibration resistant (suitable for mobile applications)
- Series and parallel connection capability



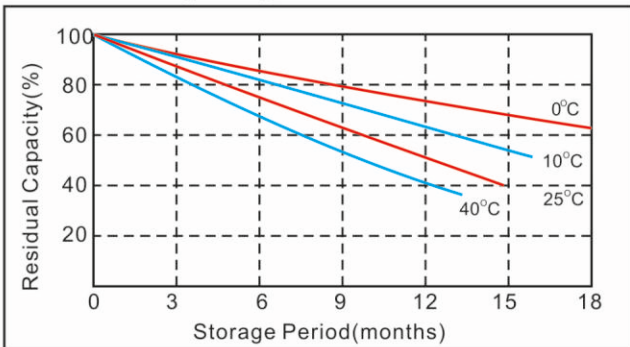
Parameter Chart:

Volts		25.6 V	
Capacity(25°C)	10 hours rate (10A)	100Ah	
Internal Resistance	Full Charged Battery 25°C	≤ 20mΩ	
Capacity Affected By Temperature (at 0.5C)	40°C	101%	
	25°C	100 %	
	0°C	93 %	
	-20°C	80 %	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91 %	
	Capacity After 6 Months Storage	82 %	
	Capacity After 12 Months Storage	60 %	
Charge (Constant Voltage)	Cycle (25°C)	Recomended Initial Charging Current Less Than 33A Voltage 28,4 V - 29,2 V	
Discharge Current (25°C)	50A (Max. continuous) ; 100A (5 Seconds)		
Weight (Approx)		22 kg +/- %2	

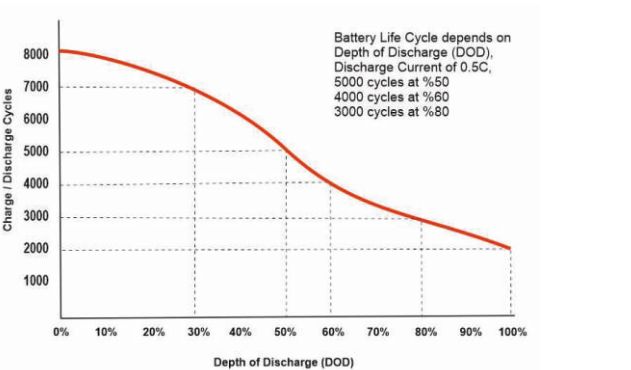
Discharge Current 25°C



Residual Capacity



Cycle service life in relation to the depth of discharge



Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
00 V	100	50	33.3	25	20	12.5	10	5

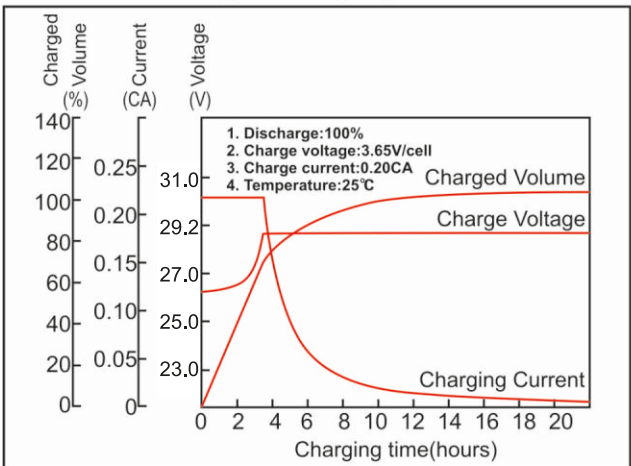
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
00 V	1200	600	400	300	240	150	128	64

Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Li Battery	25,6 V	73%	82%	93%	95%	97%	100%	100%	100%	101%	102%

Constant voltage charging characteristics

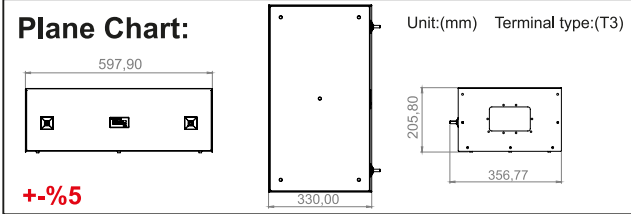


★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

25,6 V 200 Ah LiFePO4



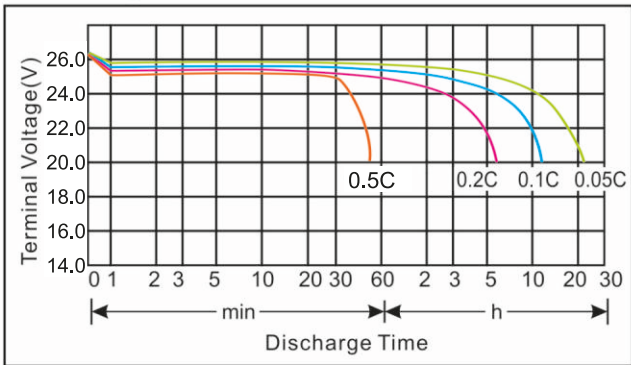
- Extremely durable and reliable
- High charging efficiency with high current
- Improved cycle life performance
- Improved 100% Domestic BMS Technology
- Vibration resistant (suitable for mobile applications)
- Series and parallel connection capability



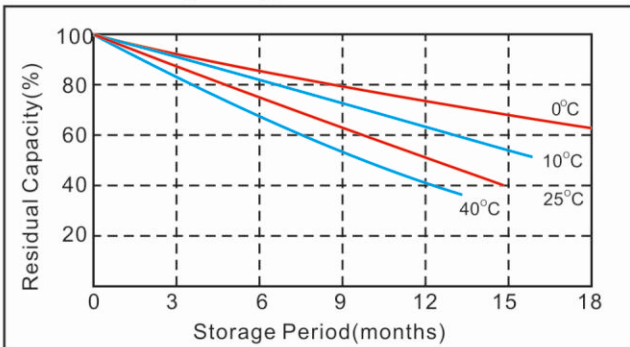
Parameter Chart:

Volts		25.6 V	
Capacity(25°C)	10 hours rate (20A)	200Ah	
Internal Resistance	Full Charged Battery 25°C	≤ 20mΩ	
Capacity Affected By Temperature (at 0.5C)	40°C	101%	
	25°C	100 %	
	0°C	93 %	
	-20°C	80 %	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91 %	
	Capacity After 6 Months Storage	82 %	
	Capacity After 12 Months Storage	60 %	
Charge (Constant Voltage)	Cycle (25°C)	Recomended Initial Charging Current Less Than 66A Voltage 28,4 V - 29,2 V	
Discharge Current (25°C)	100A (Max. continuous) ; 200A (5 Seconds)		
Weight (Approx)		53 kg +/- %2	

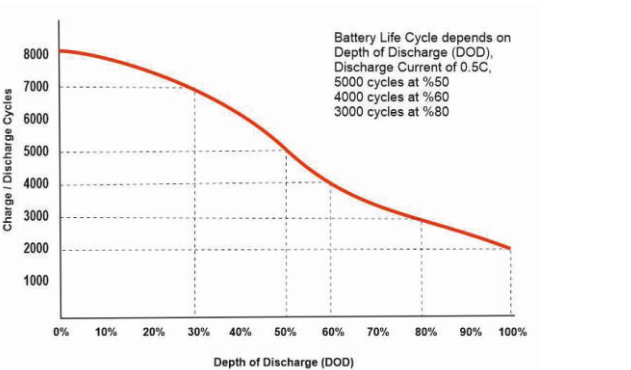
Discharge Current 25°C



Residual Capacity



Cycle service life in relation to the depth of discharge



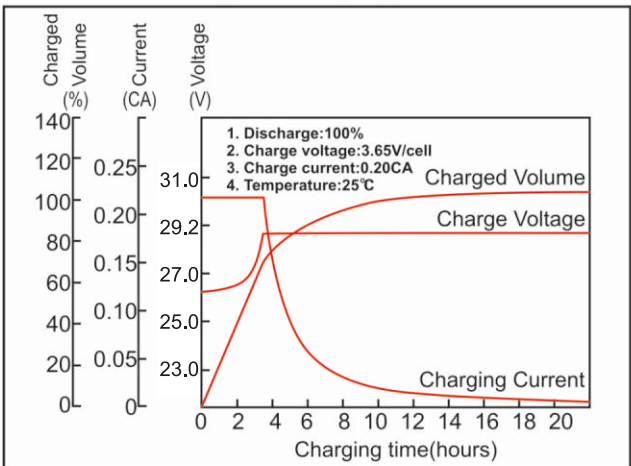
Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
20 V	100	50	33.3	25	20	12.5	10	5

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
20 V	1200	600	400	300	240	150	128	64

Constant voltage charging characteristics



Capacity Factors With Different Temperature

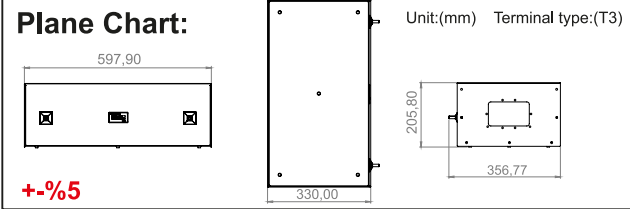
Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Li Battery	25,6 V	73%	82%	93%	95%	97%	100%	100%	100%	101%	102%

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

51.2 V 100 Ah LiFePO4



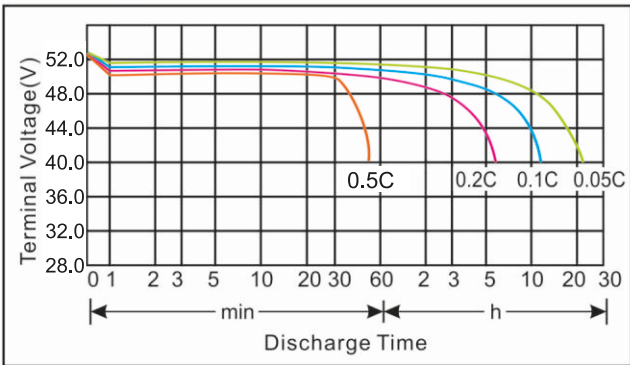
- Extremely durable and reliable
- High charging efficiency with high current
- Improved cycle life performance
- Improved 100% Domestic BMS Technology
- Vibration resistant (suitable for mobile applications)
- Series and parallel connection capability



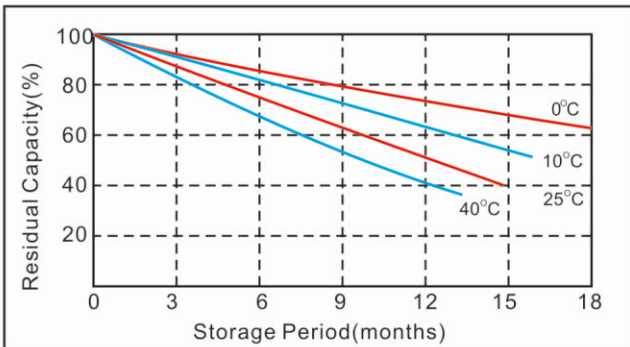
Parameter Chart:

Volts		51.2 V	
Capacity(25°C)	10 hours rate (10A)	100Ah	
Internal Resistance	Full Charged Battery 25°C	≤ 20mΩ	
Capacity Affected By Temperature (at 0.5C)	40°C	101%	
	25°C	100 %	
	0°C	93 %	
	-20°C	80 %	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91 %	
	Capacity After 6 Months Storage	82 %	
	Capacity After 12 Months Storage	60 %	
Charge (Constant Voltage)	Cycle (25°C)	Recomended Initial Charging Current Less Than 30A Voltage 56,8 V - 58,4 V	
Discharge Current (25°C)	50A (Max. continuous) ; 100A (5 Seconds)		
Weight (Approx)		53 kg +/- %2	

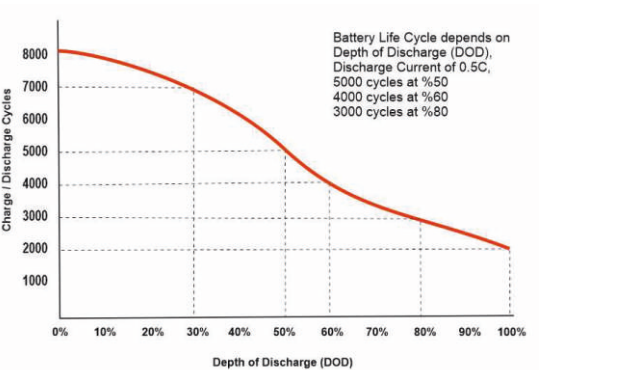
Discharge Current 25°C



Residual Capacity



Cycle service life in relation to the depth of discharge



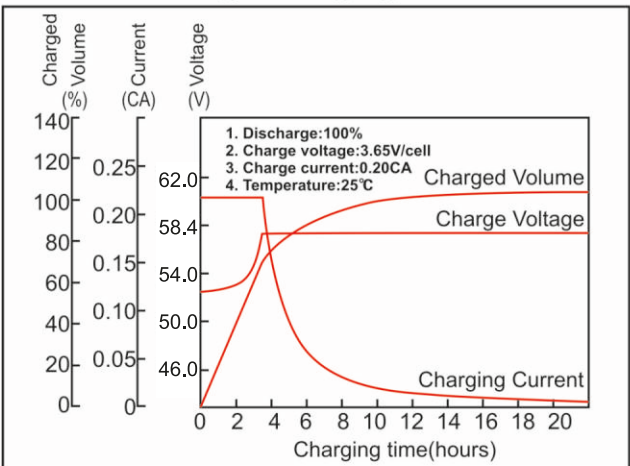
Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
40 V	100	50	33.3	25	20	12.5	10	5

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
40 V	1200	600	400	300	240	150	128	64

Constant voltage charging characteristics



Capacity Factors With Different Temperature

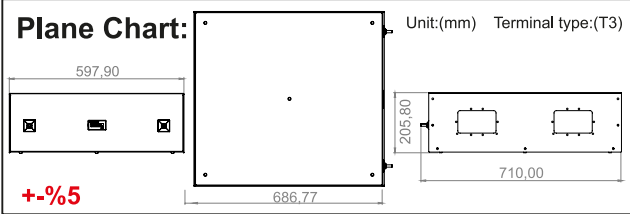
Battery Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Li Battery	51.2 V	73%	82%	93%	95%	97%	100%	100%	101%	102%

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

51.2 V 200 Ah LiFePO4



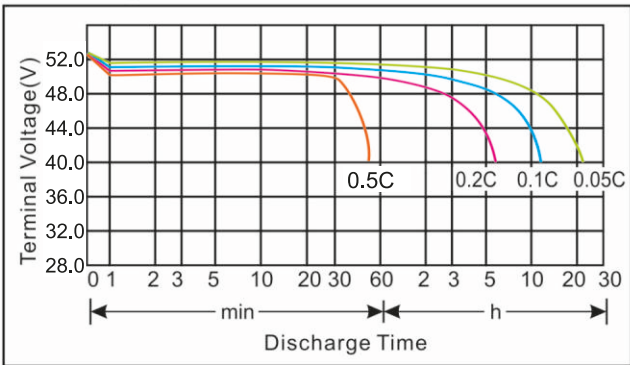
- Extremely durable and reliable
- High charging efficiency with high current
- Improved cycle life performance
- Improved 100% Domestic BMS Technology
- Vibration resistant (suitable for mobile applications)
- Series and parallel connection capability



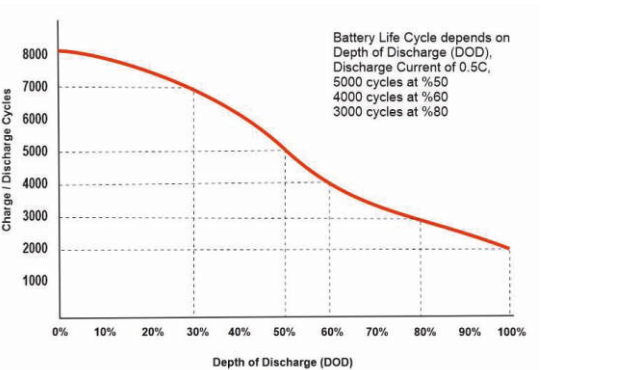
Parameter Chart:

Volts		51.2 V	
Capacity(25°C)	10 hours rate (20A)	200Ah	
Internal Resistance	Full Charged Battery 25°C	≤ 20mΩ	
Capacity Affected By Temperature (at 0.5C)	40°C	101%	
	25°C	100 %	
	0°C	93 %	
	-20°C	80 %	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91 %	
	Capacity After 6 Months Storage	82 %	
	Capacity After 12 Months Storage	60 %	
Charge (Constant Voltage)	Cycle (25°C)	Recomended Initial Charging Current Less Than 66A Voltage 56,8 V - 58,4 V	
Discharge Current (25°C)	100A (Max. continuous) ; 200A (5 Seconds)		
Weight (Approx)		106kg +/- %2	

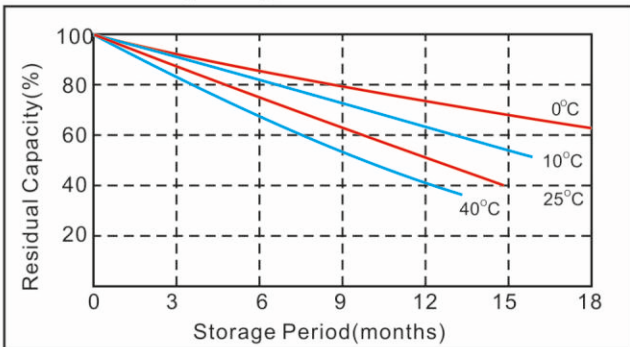
Discharge Current 25°C



Cycle service life in relation to the depth of discharge



Residual Capacity



Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
40 V	100	50	33.3	25	20	12.5	10	5

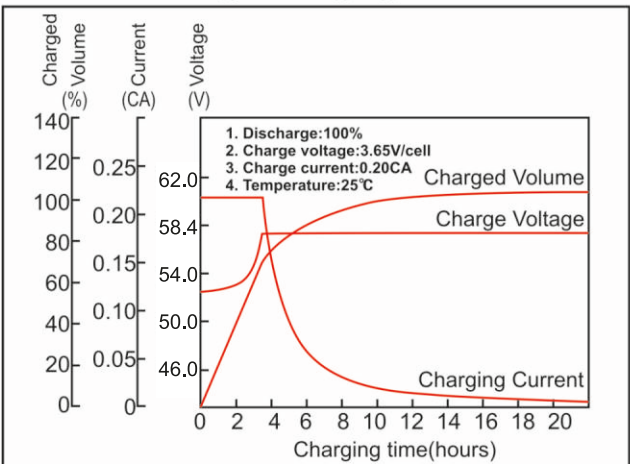
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	1h	2h	3h	4h	5h	8h	10h	20h
40 V	1200	600	400	300	240	150	128	64

Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Li	51.2 V	73%	82%	93%	95%	97%	100%	100%	100%	101%	102%

Constant voltage charging characteristics



★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.