Krafton KCL12.8-100

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE	
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 20A	300 min
Energy	1280 Wh
Resistance	≤20 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Square Cell 3.2V100Ah

CHARGE PERFORMANCE	
Recommended Charge Current	20 A
Maximum Charge Current	50 A
Recommended Charge Voltage	14.6 V
Charge Cut-Off Voltage	<15.2 V (0.5 ~ 1.5 s)
Reconnect Voltage	>14.4 V
Balancing Voltage	<14 V
Maximum Batteries in Series	4

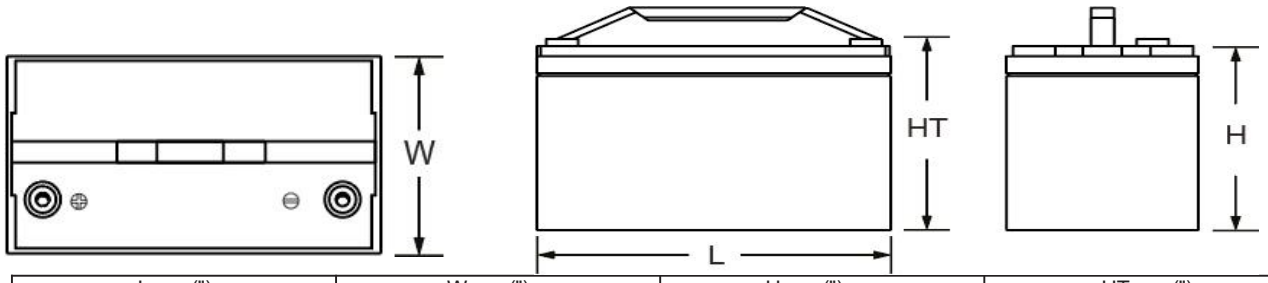
DISCHARGE PERFORMANCE	
Continuous Discharge Current	50 A
Maximum contiuous Discharge Current	150 A
Peak Discharge Cut-Off Current	300 A(5 ~15 ms)
Recommended Low Voltage Disconnect	10 V
Discharge Cut-Off Voltage	>8.4 V (50 ~ 150 ms)
Reconnect Voltage	>10 V
Short Circuit Protection	200 ~ 600 µs

MECHANICAL PERFORMANCE	
Dimension (L x W x H)	330 x 172 x 215 mm 12.99 x 6.77 x 8.46”
Approx. Weight	10.5 kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Enclosure Protection	IP65

TEMPERATURE PERFORMANCE	
Discharge Temperature	-4 ~ 140 ºF (-20 ~ 60 ºC)
Charge Temperature	32 ~ 113 ºF (0 ~ 45 ºC)
Storage Temperature	23 ~ 95 ºF (-5 ~ 35 ºC)
High Temperature Cut-Off	149 ºF (65 ºC)
Reconnect Temperature	118 ºF (48 ºC)

COMPLIANCE	
Certifications	CE UN38.3 UL1642 & IEC62133
Shipping Classification	UN 3480, CLASS 9

OUTLINE DIMENSION

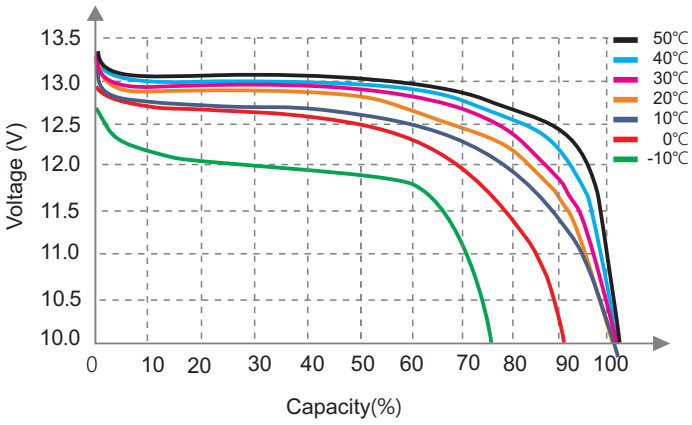


L mm(”)	W mm(”)	H mm(”)	HT mm(”)
330 (12.99)	172 (6.77)	223(8.8)	

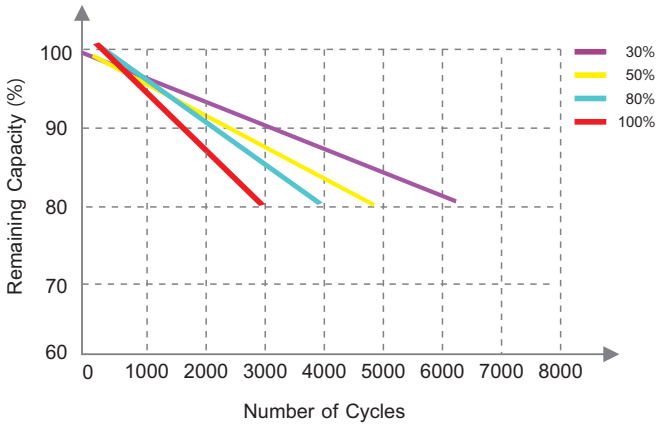
Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

PERFORMANCE CHARACTERISTICS

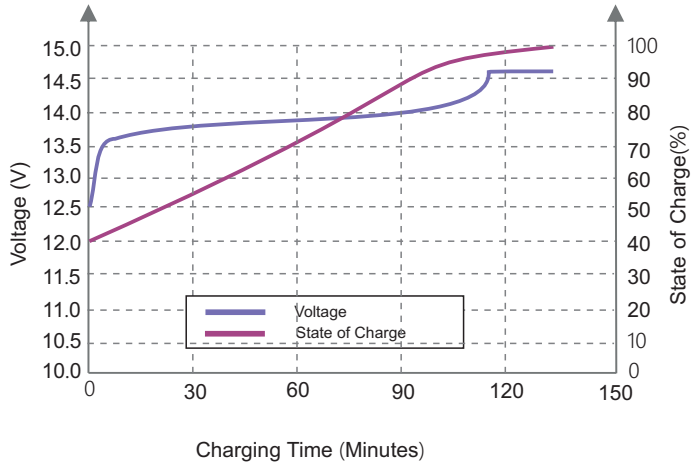
Different Temperature Discharge Curve (0.5C)



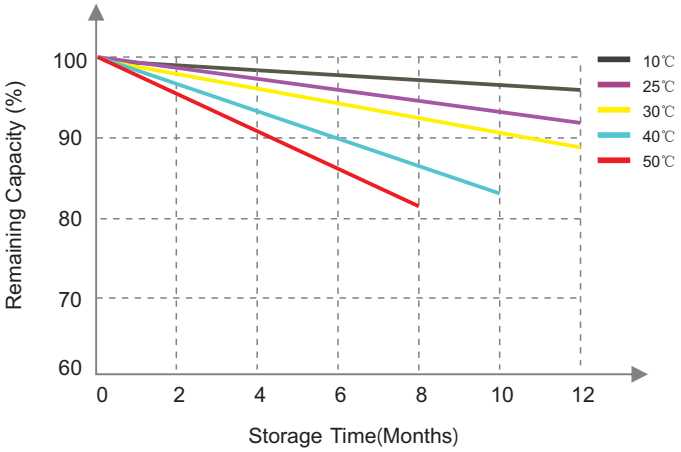
Different DOD Discharge Cycle Life Curve (1C)



State os Charge Curve (0 .5C, 25℃)



Different Temperature Self Discharge Curve



FEATURES

High cycle life
>3000 cycles @100% DoD for effectively lower total cost of ownership.

Longer service life
Low maintenance, stable chemical materials, monitoring the activity status of the battery smart mode.

Built in circuit protection
Battery Management Systems (BMS) are incorporated against abuse.

Better storage
Up to 6 months due to the extremely low-self discharge (LSD) rate and no risk of sulfation.

Quickly recharge.
Save time and increase productivity with less down time due to superior charge/discharge efficiency.

Extreme heat tolerance
Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.

Lightweight
Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.
Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more

CAUTIONS

- Do NOT short circuit, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.