

# DRIFT PRO

Fogstar Drift 280Ah 12V Specification  
Powered by EVE Prismatic

## FOGSTAR DRIFT PRO 280AH



SPECIFICATIONS	
CELL TYPE	LF280K-72174/3.2V/280AH
CELL CONFIGURATION	4S1P
NOMINAL CAPACITY	280AH
ENERGY	3584WH
CELL CHEMISTRY	LITHIUM IRON PHOSPHATE
CELL NOMINAL VOLTAGE	3.2V *4 (12.8V)
CYCLE LIFE	6000 CYCLES @ 80% DOD
MAXIMUM DISCHARGE	300A
MAXIMUM CHARGING CURRENT	140A (0.5C)
STANDARD CHARGING CURRENT	60A (0.2C)
NOMINAL VOLTAGE	12.8V
STANDARD CHARGING VOLTAGE	14.4V
MAXIMUM CHARGING VOLTAGE	14.6V
DISCHARGE CUT OFF VOLTAGE	10V
DISCHARGE TEMPERATURE RANGE	-20°C ~ 55°C
CHARGE TEMPERATURE RANGE	0°C ~ 55°C
HEATING FUNCTION	0°C ~ 10°C
STORAGE	-20°C ~ 45 °C (1 MONTH) 0°C ~ 35 °C (3 MONTHS)
MEASUREMENTS	HEIGHT 280MM (±1.0MM) LENGTH 390MM (±1.0MM) THICKNESS 205MM (±1.0MM)
WEIGHT	33.28KG
HOUSING MATERIAL	METAL
CONFORMITY	UN38.3, ROHS, CE, UL, UKCA



**UN38.3**

JBD BMS	
MAXIMUM DISCHARGE	300A
TEMPERATE PROTECTION	YES
OVERCURRENT PROTECTION	YES
OVERDISCHARGE PROTECTION	YES
MAX CHARGING CURRENT	300A

ACTIVE BALANCER	
EQUALISER	2A
VOLTAGE ACQUISITION RANGE	1V ~ 5V
ACCURACY	± 3MV
BLUETOOTH COMMUNICATION	YES
DIMENSIONS	160MM x 100MM x 20MM

# DRIFTPRO

## Storing your Battery

We strongly suggest your batteries are stored at room temperature, charged to about 30% to 50% of capacity. We recommend that batteries be charged once every three months to prevent over discharge.

## Battery Performance

Because Lithium Iron Phosphate batteries utilise a chemical reaction, battery performance will deteriorate over time even if stored for long periods of time without being regularly used.

In addition, if the various usage conditions such as charge, discharge, ambient temperature, etc. are not maintained within the specified ranges, the life expectancy of the battery may be shortened, or the device in which the battery is used may be damaged by electrolyte leakage.

If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate it is time to change the battery.

## Battery Safety

- Do not disassemble your battery.
- Do not short the battery.
- Do not store your batteries in direct sunlight.
- Store the battery in a cool and well ventilated area.
- Keep batteries away from flammable objects and materials.
- Keep batteries away from static electric charges.
- Keep out of reach from animals and children.
- Do not immerse your battery in water.
- Do not crush, incinerate or modify your battery.
- Only use batteries within the manufacturers specifications.
- Recycle your batteries correctly.

## Battery Series and Parallel Mode

Battery modules can be used simultaneously four (4) in series, and four (4) in parallel connection.

## Battery Heating

This battery has a built-in heater that heats the battery to 5C to enable charging at low temperatures.

The Drift heating pads are only activated when the battery is being charged, and are only powered by the incoming charge current, not the battery itself. If you put the battery on charge in cold temperatures, it will heat the battery first, and then allow current through to the battery when the temperature is safe enough to do so.

## Charging

Your battery should be charged using a lithium iron phosphate battery charger where possible.

Charging Voltage: 14.4V

Recommended : 14.4V Bulk, 14.4V Absorption & 13.8V Float

Charging Current : Up to 300A

## Battery Warranty

- Fogstar offers a 10 year warranty on all Fogstar Drift Leisure batteries.
- Warranties only apply to the original owner and are non-transferrable.
- Fogstar will verify your purchase prior to processing any warranty claims or returns.
- If it is determined that the product is faulty, we will ship a new product to you immediately, you will only be asked to cover the cost of the shipping.
- Our warranty does not cover items that have been damaged due to gross negligence, normal wear and tear, damage due to accident or collision, abuse or incorrect installation.

## Download the Fogstar Drift App

As a Fogstar customer, you'll also get the use of our fantastic Fogstar Drift App. Our App has been custom built to connect directly with the BMS, allowing you to manage and maintain the health of the battery at all times.

The Fogstar Drift app is free to download on both Android and iOS.

You can find out more about the Fogstar Drift App at our dedicated Fogstar Drift website [www.fogstar-drift.co.uk](http://www.fogstar-drift.co.uk).

## JK Active Balancer

Because your battery contains matched and balanced Grade A EVE cells, you should not have to use your Active Balancer often. We recommend plugging the device in every three (3) to six (6) months, for two (2) to three (3) cycles (depending upon levels of cell disparity).

Do not leave the device plugged in indefinitely. All Active Balancers (external or built in) have a large self consumption of >1Ah per day on average - even when not balancing.