FDC-1275

FULBAT™
DEEP CYCLE BATTERY
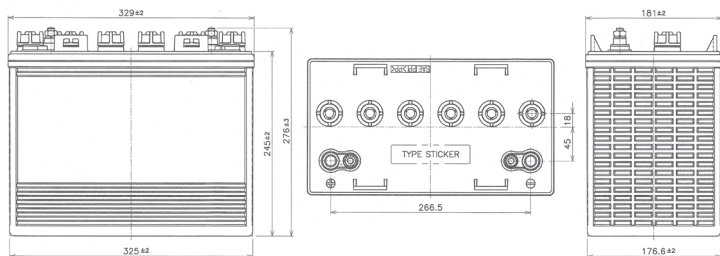
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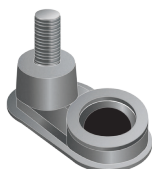

POLYPROPYLENE

FLOODED

FDC Series are Deep Cycle liquid electrolyte batteries specifically designed for small traction applications (requiring deep discharges). With robust design made of thick positive & negative grid plates in a special alloy, the FDC Series offer low self-discharge and ensure a long service life with high resistance to cycles. This range is ideal for golf cart applications, aerial work platform, cleaning machine, solar, ..

DIMENSIONS & WEIGHT

LENGHT	329±2mm
WIDTH	181±2mm
TOTAL HEIGHT	278±2mm
ELECTROLYTE	6.8L
GROSS WEIGHT	38.5kg

SPECIFICATION

VOLTAGE 12v	**CAPACITY (100h)** 166Ah
CAPACITY (25A) 280min	**CAPACITY (20h)** 150Ah
CAPACITY (75A) 70min	**CAPACITY (10h)** 134Ah
	CAPACITY (5h) 120Ah

Operating temperature	-20ºC to +45ºC At temperatures below 0ºC maintain a state of charge higher than 60%.
Capacity affect by temp.	40ºC/104ºF 105% 30ºC/86ºF 100% 0ºC/0%ºF 80%

CHARGE METHOD

Phase 1 (Constant current)
Constant current charge at 15~19.5 amperes until the battery voltage measures between 14.28~14.58 V/Battery (25ºC) on charge voltage.

Phase 2 (Constant voltage)
Constant voltage charge at 14.28~14.58 V/Battery (25ºC) until the current measures between 1.5~4.5 amperes.

Phase 3 (Constant current)
Constant current charge at 1.5~4.5 amperes until the battery voltage measures between 15~16.2V/battery (25ºC) or until dV/dt reaches to less than 0.035.

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.
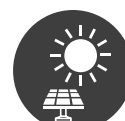
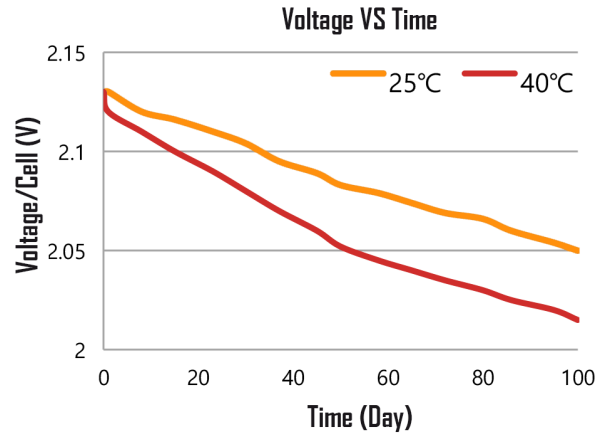## APPLICATIONS
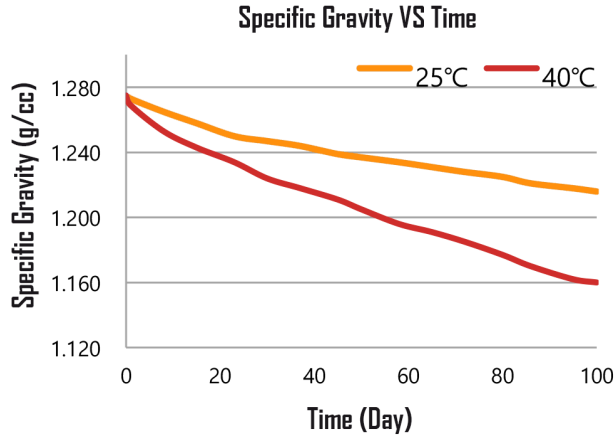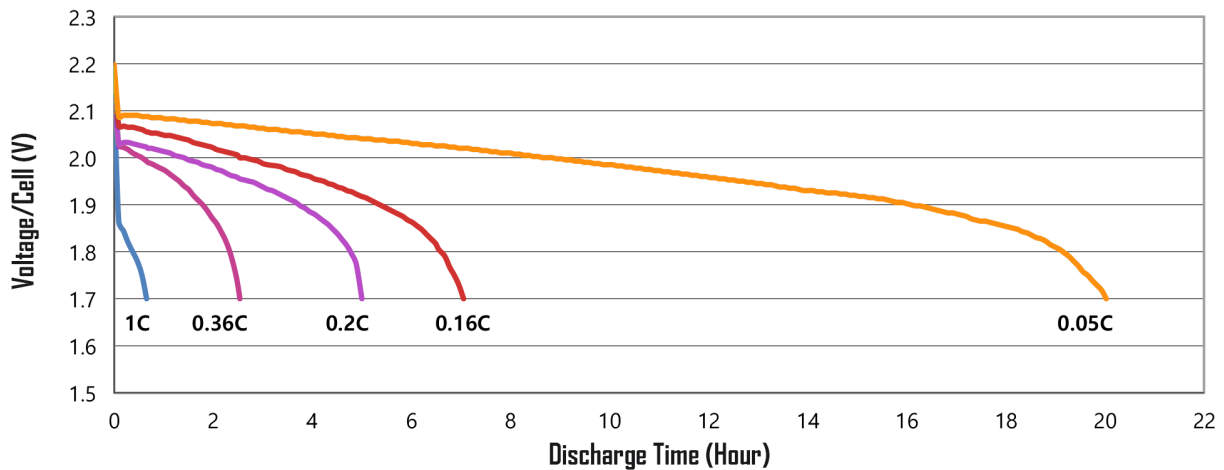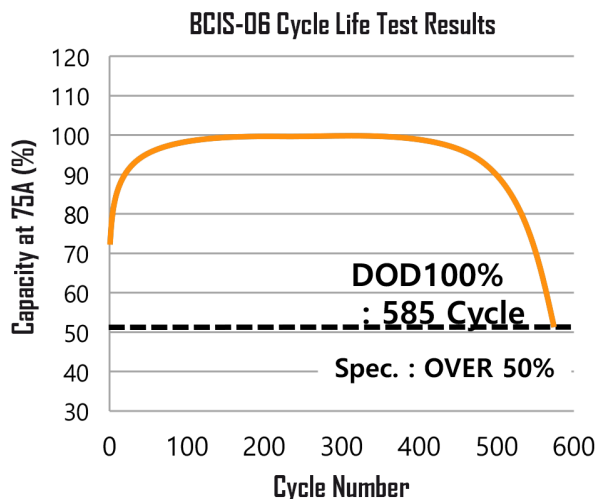

Aerial Work Platform **Golf Cart** **Floor Cleaning Machine** **Solar**

TERMINAL EHPT

Terminal Height (mm)	38
Torque Value in-lb (Nm)	95 - 105 (11 - 2)
Bolt	5/16''

FULBAT™
MOTIVE POWER BATTERY

SELF DISCHARGE DATA

Specific Gravity VS Time

— 25℃ — 40℃

Specific Gravity (g/cc) vs Time (Day)

Voltage VS Time

— 25℃ — 40℃

Voltage/Cell (V) vs Time (Day)

CAPACITY BY DISCHARGE CURRENT

Voltage/Cell (V) vs Discharge Time (Hour)

1C   0.36C   0.2C   0.16C   0.05C

CYCLE SERVICE LIFE: BCIS-06 [DOD 100% 27℃]

BCIS-06 Cycle Life Test Results

Capacity at 75A (%) vs Cycle Number

DOD100% : 585 Cycle

Spec. : OVER 50%

DEPTH OF DISCHARGE (DOD) & CYCLE NUMBER

Cycle Number (%) vs Depth of Discharge (%)

DOD70% : 819 Cycle

DOD80% : 748 Cycle

FULBAT™
MOTIVE POWER BATTERY