

Model: TC5000



*Light Weight, Portable, **Smart GPU***

FEATURES

- “Plug-and-Play” System
- Fast Charging
- Bluetooth enabled Smart Monitoring and Management through Mobile phone
- Safe and Robust Technology
- CAN BUS Communication
- 2-metre NATO cable
- Light Weight and Easy to Use
- LCD Digital Display with Push-to-View button providing Voltage, SoC and Various Parameters

Tentacell, the 29.7 volt (nominal) 50 amp/hr portable GPU powered by Lithium Ion Battery was developed for medium to heavy turbine aircraft and helicopters where portability requirements limit weight and size, but the need to maintain stable voltage required for a start cycle in modern machines employed with FADEC.

When compared to a standard GPU powered by Lead Acid Battery, Tentacell offers excellent performance and can out perform a standard GPU by a great margin. This in-turn delivers faster spool-ups, cooler starts and a faster, more positive systems response, which benefits turbine life and system reliability.

Tentacell is capable of handling the inrush current requirement of modern aircraft and helicopter and maintains a steady voltage required for cool starting of the turbine engines. With its most advanced battery technology in the industry. With its portable dimension and weight, Tentacell has been flexible for meeting the requirement of operators at remote locations

With an onboard Battery Management System (BMS) with a custom software developed inhouse, Tentacell offers the most modern battery with the best service life in the industry. BMS allows the battery cells to be properly balanced at all times and also monitors cell temperature to offer maximum service life to battery pack.

Tentacell is supplied with a charger capable of working in 110/220 volt. With the modern technology inbuilt in Tentacell, charging times have reduced to 50% when compared to a standard GPU. Tentacell is provided with a Power ON/OFF switch which can turn OFF the unit when not in use, thus extending battery life. With a digital LCD display, the user is able to read the State of Charge of battery and can determine the number of starts he can perform before the unit is put for charging.

Tentacell is provided with industry standard quick disconnect plugs for easy removal and storage. It also comes with a standard NATO cable which can be customized based on customer needs.

SPECIFICATION: Model - TC5000

Nom. Voltage	29.7 V DC
Max. Voltage	32.4 V DC
Min. Voltage	25.2 V DC
Rated Capacity	50Ah
Rated Energy Contents	1.48 kWh
Max Continuous Discharge Current	1000A
Peak Discharge Current	2500A (10 seconds)
Max. Continuous Charge Current	0.5C
Standard Charge Current	0.3C
No. of Starts	6 – 8
Weight	28 Kgs
Dimension (L x W x H)	55 x 14 x 53 cm
Charging Time	3.5 Hours (Capacity from 0 % to 100%)
Cycle Life	3000 cycles
Communication	CAN 2.0 / Bluetooth with Mobile App
Over Current Protection	Yes through BMS
BMS Power Consumption (ON / OFF)	~20Ma / ~20μA
Operating Temperature	-20°C to 55°C
Storage Temperature	-20°C to 60°C
Cell Transport by Air	UN 3480
Cell Safety Certification	CE, UN 38.3 UL 1642, IEC 62133-2, CIQ, REACH, RoHS, ISO-14001, TS/IATF-16949.
Case	Powder coated aluminium with neoprene shock absorbing feet.
Safety	Sliding cover to protect output socket

** Product performances are subject to change based on operating conditions.

** This Information is given in good faith