Ictineu SUBMARINS

Technical Specifications

148 & 29 VDC – 8,5 kWh
Pressure compensated Li-Po Battery

Description

The ICTINEU battery system is very simple to install, even into an existing vehicle or platform as it is designed as a plug and play system that does not need any special engineering for integration.

This 5th generation batteries have the same configuration and functionalities as the standard ICTINEU 148 V - 10,36 kWh battery with improved robustness and features

It is safe and reliable: each module incorporates its own Battery Management System (BMS), safety elements (relays, fuses, redundant over-charge control) and can be monitored by user via CAN bus and/or RS232 bus.

It offers the best power-to-weight ratio in the market and is maintenance free.

It is built on fire-proof and non-conductive materials for higher safety. All materials are corrosion free, perfectly suited for sea and harsh environments.



Patented
Ictineu Submarins S.L.

Only high quality cells are used (NMC High Energy).

A Graphical User Interface is provided for an easy monitoring.

Tailored systems under request.

Certification: Complies with last edition of DNV rules for EES – Ships and UWT.

148 VDC Electrical Specifications	
Voltage (max | nom | min)	164,4 | 148,0 | 120,0 V DC
Capacity (nominal)	60 Ah
Max. discharge rated current	80 A
Max. charge current	20 A
Battery model/hardw: Bat 005	

29,6 VDC Electrical Specifications	
Voltage (max | nom | min)	32,88 | 29,6 | 24,0 V DC
Capacity (nominal)	300 Ah
Max. discharge rated current	122,5 A
Max. charge current	95,5 A
Battery model/hardw: Bat 005 LV	

Weight and Volume	
Weight in air	90 kg | 198,42 lb
Weight in water	39 kg | 85.98 lb
Displacement	52 liter | 13,74 US gal

Geometrical Data	
Length	600 mm / 23,62 Inch.
Width	275 mm / 10,83 Inch.
Height*	360 mm / 14,17 Inch.

General Electrical Specifications	
Energy (nominal)	8,5 kWh @ 90%
Discharge temperature	-20 ºC to 55 ºC
Charge temperature	0 ºC to 45 ºC*
Operational depth	6 000 m
Life cycles at 90% DOD, 1C/1C	≥ 6,000, up to 15 years**

Protections and Systems	
BMS	Built-in
Charge power contactors	Built-in
Protection fuses	Built-in
Load power contactors	Built-in
Load pre-charge system	Built-in
Comunication	CAN 2.0A and RS232

* Check manufacturer for additional details / options
** Pressure cycling may affect cycles and calendar life
***60mm for a safety valve have to be added to the battery height.
Dimensions and weight may have slight variations in final product.

This product is patented, all rights are property of ICTINEU Submarins SL, ESB64470503

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