



The **HydroC™ PowerPack** provides energy for deep-sea and shallow-water instrumentations. The innovative Li-Ion cells give the highest performance at deep temperatures. For economical reasons Alkali Manganese batteries and Ni-Cd storage batteries are provided as well. With the **SmartDI™** Controller / Datalogger as the heart, many different sensors, a power management and a data transmission as a complete monitoring system is realized.

Due to the excellent characteristics, the **HydroC™ / PowerPack** is best used for off-shore (ODAS = Ocean Data Acquisition System) and underwater / arctic applications as well as under other extreme conditions. The housing is compatible with the "Long-John" HydroC™ sensor family. User defined sizes on request.

	<i>Setup example, please contact us for your requirements</i>	
Rough Housing	Titanium Ø 90 mm, L 500mm "Long-John", other on request	
Weight	7.1 kg ("Long-John" Housing up to 4000m, Titanium 41.4 Ah)	
Connector	SUBCONN® Micro connector MCBH5F, other on request	
Operating depth	2000, 4000, 6000 m	
Temperature	-20°C ... +60°C	Operating temperature
	0°C ... +40°C	Charge temperature
	-20°C ... +50°C	Storage temperature
Voltage	Open voltage	14.8 V
	Typical voltage	14.0 V
	Minimal voltage	12.0 V (to give full performance, absolute min. 9V)
Capacity	Maximal capacity	41.4 Ah (> 0°C, fresh cells)
	Typical capacity	38 Ah (0°C, after 100 cycles)
	Low temperature	32 Ah (-20°C)
	<i>(6000m version with 30Ah due to the pressure housing limitations)</i>	
Cell type	Li-Ion high-power cells	
Current	9 A max to protect the wires and connectors (on request up to 60A)	
Self discharge	20 % per year at +25°C, 10% per year at 0°C	
Charge cycles	500 cycles for 80% remaining capacity	
Protection	Internal PowerPack protection for: Over-charge (17,4V), Under voltage discharge (9 V), Current limiting (9 A after 1s) Short current protection	
Charging	Smart Charger, can be connected all time. Typical charging time approx. 5 hours due to temperature limitations. Charging under water is possible ! No need to open the housing !	
Related products	<ul style="list-style-type: none"> ■ HydroC™ sensor family for CH₄, CO₂, Oil-in-Water (PAH), H₂S, MEG ■ OceanLine sensor family for oceanographic, hydrographical parameters ■ SmartDI Subsea Datalogger / Control units ■ SubSea Monitoring Station 	

Rechargeable Under Water !