

Subsea Power Packs



Key features

- Subsea ruggedised power pack
- 50m up to 3000 m depth rated
- Integrated safety systems
- Primary cell and rechargeable pack options
- External On/ Off power switch

Applications

- Deep water to transition zone / surface operations
- Power for applied acoustics MiniPod family of products
- AUV/ ROV emergency power back-up
- Subsea/ offshore monitoring applications
- Acoustic positioning beacon external battery

Subsea Power Packs Overview

The BPK Series is a ruggedised subsea DC primary or rechargeable power pack designed to survive up to 3000m immersion for varying applications across the offshore and marine sectors.

Each subsea power pack is fitted with resettable fuse protection, external power switching and an automatic pressure relief valve (PRV). Connections to the subsea power pack use common subsea connectors and industry standard pin terminations for easy integration..

Technical Specification

MODEL TYPES

Part Number	Survival Depth	Diameter	Length	Water air/water	Battery	Capacity*
BPK-2420	IP67	300 mm x 249 mm	119 mm	6 kg/ N/A	24 V Lithium Tron Phosphate	20 Ah
BPK-101G	50 m	125 mm	600 mm	9.0 kg/5.5 kg	18 V Alkaline 21 V Lithium**	30 Ah 68 Ah
BPK-2422	1000 m	55 mm	325 mm	1.4 kg/0.8 kg	21.6 V NiMH	2.2 Ah
BPK-2470	3000 m	125 mm	395 mm	9.5 kg/6.2 kg	24.0 V NiMH	7.0 Ah

*Capacity at full charge or new packs @ 20°C

** BPK-101G Supplied with Alkaline cells as standard. Internal cell chemistry switch provided.

Physical Specification

Part Number	Power out connector	Charge connector	Chassis material	Temperature limit
BPK-2420	Amphenol TR8208A A	Amphenol TR8208A	Copolymer polypropylene	60°C
BPK-101G	MC-BH-2F	N/A	White acetyl	85°C
BPK-2422	MC-BH-2F/ MC-BH-5F*	MC-BH-5M	Hard anodised aluminum	70°C
BPK-2470	MC-BH-2F/ MC-BH-5F*	MC-BH-5M	Hard anodised aluminum	70°C

* A 5-way bulkhead can be fitted to pass communication lines through to equipment which extends the battery life of the equipment connected.

Customised battery power solutions are available, please discuss with a member of the team.

Electrical Application (Typical)

Part Number	Survival Depth	Application	Charger	Battery cell type
BPK-2420	IP67	Rechargeable 18 V DC MiniPod power	5 A Fast charger	Lithium Iron Phosphate
BPK-101G	50 m	18VDC / 21 V DC MiniPod power	N/A	Alkaline
BPK-2422	1000 m	Rechargeable 21.6 V DC Environmental sensor power	900 mA Fast charger 24 V trickle charge	NiMH
BPK-2470	3000 m	Environmental sensor power MiniPod power	Fast charger/ trickle charge	NiMH

^ 3000m rated version available upon request.

BPK-101G-4000

Length 3 m standard. MC-IL-2F to MC-IL-8F

BPK-107GS-4000

Length 5 m standard. MC-IL-2F to MC-IL-5F

BPK-2418-4002

Length 2 m standard. MC-IL-5F to MC-IL-5F

BCN-201G-4001

Length 5 m standard. Amphenol TR8208A to MC-IL2F

We provide an in-house moulding service and are able to manufacture custom subsea cables on request.

Please contact sales@appliedacoustics.com for further information.

Safety and Management

- Automatic Pressure Relief Valve (PRV)
- External on/off switch
- Over temperature cut out

Options

- BPK-101G Lithium cell option available for longer deployment / operational life
- Cable splices and alternative connections
- Alternative voltages and subsea packs