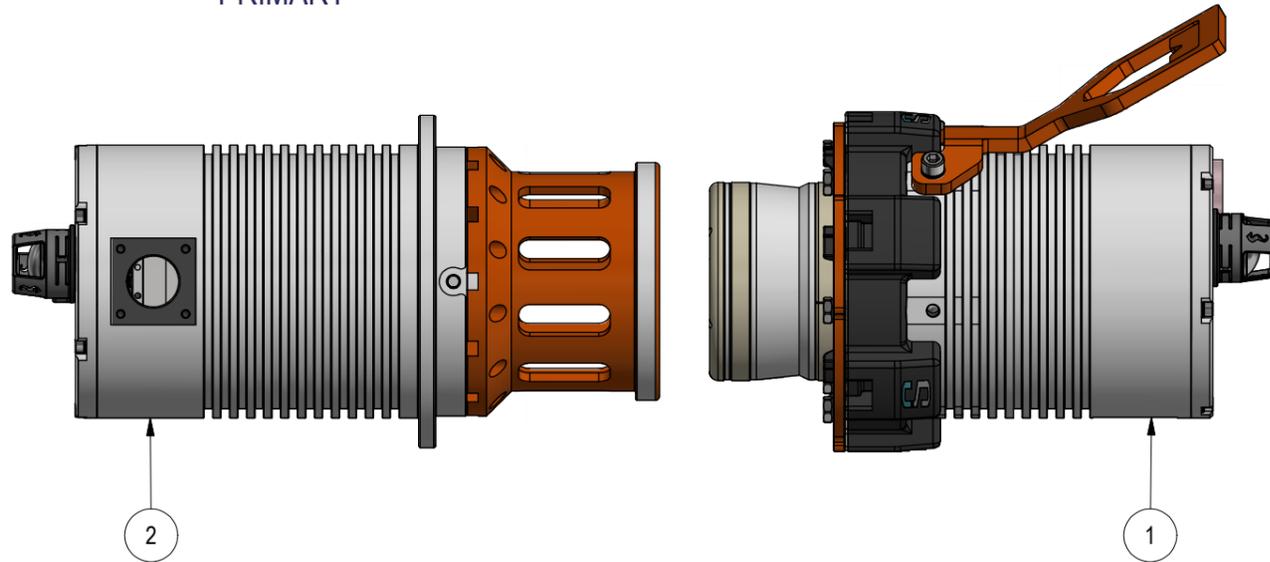


Parts List			
ITEM	PART No.	TITLE	e-Sea Weblink
1	BB9380	F30-80 Sec-Nose Perm 250W 400VDC Ethernet	<a href="https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB9380">https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB9380</a>
2	BB7589	F30-80 Pri-Cage Perm 250W 400VDC Ethernet	<a href="https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB7589">https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB7589</a>

### LONG-TERM PROGRAM

PRIMARY

SECONDARY

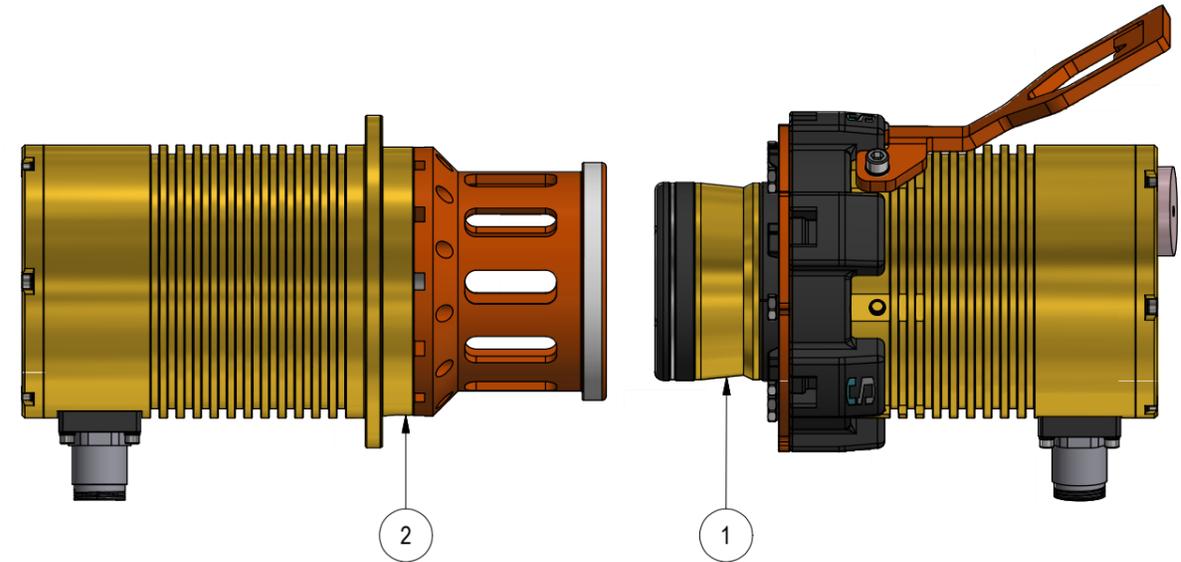


Parts List			
ITEM	PART No.	TITLE	e-Sea Weblink
1	BB9066	F30-80 Sec-Nose 250W 400VDC Ethernet Golden Unit	<a href="https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB9066">https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB9066</a>
2	BB9065	F30-80 Pri-Cage 250W 400VDC Ethernet Golden Unit	<a href="https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB9065">https://e-sea.bluelogic.no/main.aspx?page=article&amp;artno=BB9065</a>

### INTERVENTION PROGRAM

PRIMARY

SECONDARY



NOTE: 1

ADDITIONAL INFORMATION:

The Subsea USB F30-80 system is based on the Unplugged inductive technology for transfer of electrical power and communication subsea. The F30-80 connector system is part of the complete "Subsea-USB" system covering power range from 50W to 3000W with communication speeds up to 1 Gbit/s.

In general, each Inductive system consists of a Primary (TX) and a Secondary (RX) side installed in a ROV friendly housing. The power is transferred from the Primary side to the Secondary side whilst communication is operated in full duplex.

The F30-80 Connectors can be configured:

1. Manually operated by hand
2. ROV/UIID/AUV operated.
3. Tether connection
4. Bulkhead piggy backed on other equipment.

400VDC +/- 10% (DC-FO) voltage input and 325VD +/- 5%. output at the secondary side. A telemetry/diagnostic interface is available on the ethernet interface. Approx. efficiency of the inductive connectors, end to end is >85%. The inductive coils are galvanically isolated from each other and can be regarded as a 1 to 1 transformer. The F30-80 system Secondary side can be configured with RS232 or RS485 (230kbps) and with Ethernet (80Mbps). The Primary side has 2 ethernet channels; one for transparent ethernet and one as a configuration channel. The system has IoT functionality and can operate as a Controllable power supply and thus be configured as a battery charger with CC/CV charge algorithm. The system can control voltage and current using the internal regulation Firmware. This will require special software for both primary and secondary connector. I.e. by use of SW we can control Voltage +/- 20%. Most systems rated to 3000m water depth.

The system can be delivered in the following material types: Aluminium or Super duplex. It is recommended to always include the connector in the CP protection system on the aluminium connector and make sure it is in galvanic contact. Aluminium is designed for short-term (intervention) use.

The super duplex version has been fully qualified according to API17F and API 17H with a design life of 15years+. It has a MK3 PBOF Hose Flange interface enabling permanent installation with Electrical Flying Leads. A dedicated API for Cloud control is also available with condition data delivered to a default cloud connection.

FOR INFORMATION ONLY						Dwg Scale: NTS	Drawing title: F30-80 350W Program Gen2	
						Dwg Proj: A3		
01	29.2.2024	3-IFI (Issued for Information)	WTJ	HSE	WTJ	Dwg Format: A3	Drawing number: BB9476	Rev: 01
Rev.	Date	Reason for issue	Revision change	Made	Chk'd	Appr.		

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