SQUID Gigabit ROV Power

True Gigabit, without the hassle of fiber



Add true Gigabit and 1,200W of power to your ROV using the innovative SQUID power convorter connector system. The small housing is permanently attached to the end of the tether and provides 12VDC power at up to 100A and also includes a Gigabit fiber media converter. No splicing or polishing fiber required, just connect an 8-pin cobalt connector and get high speed Ethernet directly to your ROV. At the surface, a compact power supply (or fully integrated console with monitor and PC) provides 400VDC down the tether, with modern line isolation earth fault protection and a CAT-7 Ethernet cable provides easy connection. The hand operated reel holds up to 500m of tether and only 18kg empty (53kg w/500m) and includes a matching Gigabit converter inside the slipring (again, no fiber).



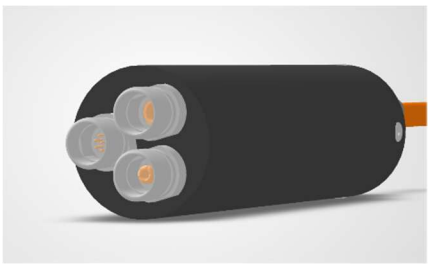


Tether	
Breaking Strength	200kg
Diameter	9.3mm-neutral freshwater
Conductors	2x19AWG+Earth+Fiber
Reel dimensions	675x522x448mm

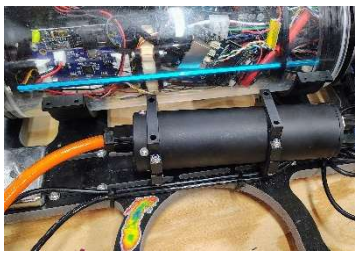
Tentacle Specifications	
Depth Rating	600m
Dimensions	48mm dia. 209mm long
Weight in air/water	880g/503g
Output	12VDC, 100A

Surface Power Base System	
Output Voltage	400 VDC
Input Voltage	90-264 VAC, 50/60Hz
Cables	IEC7 power, Deck cable
Case	560x350x230mm, 14kg

Fully isolated output with Line Isolation Monitor



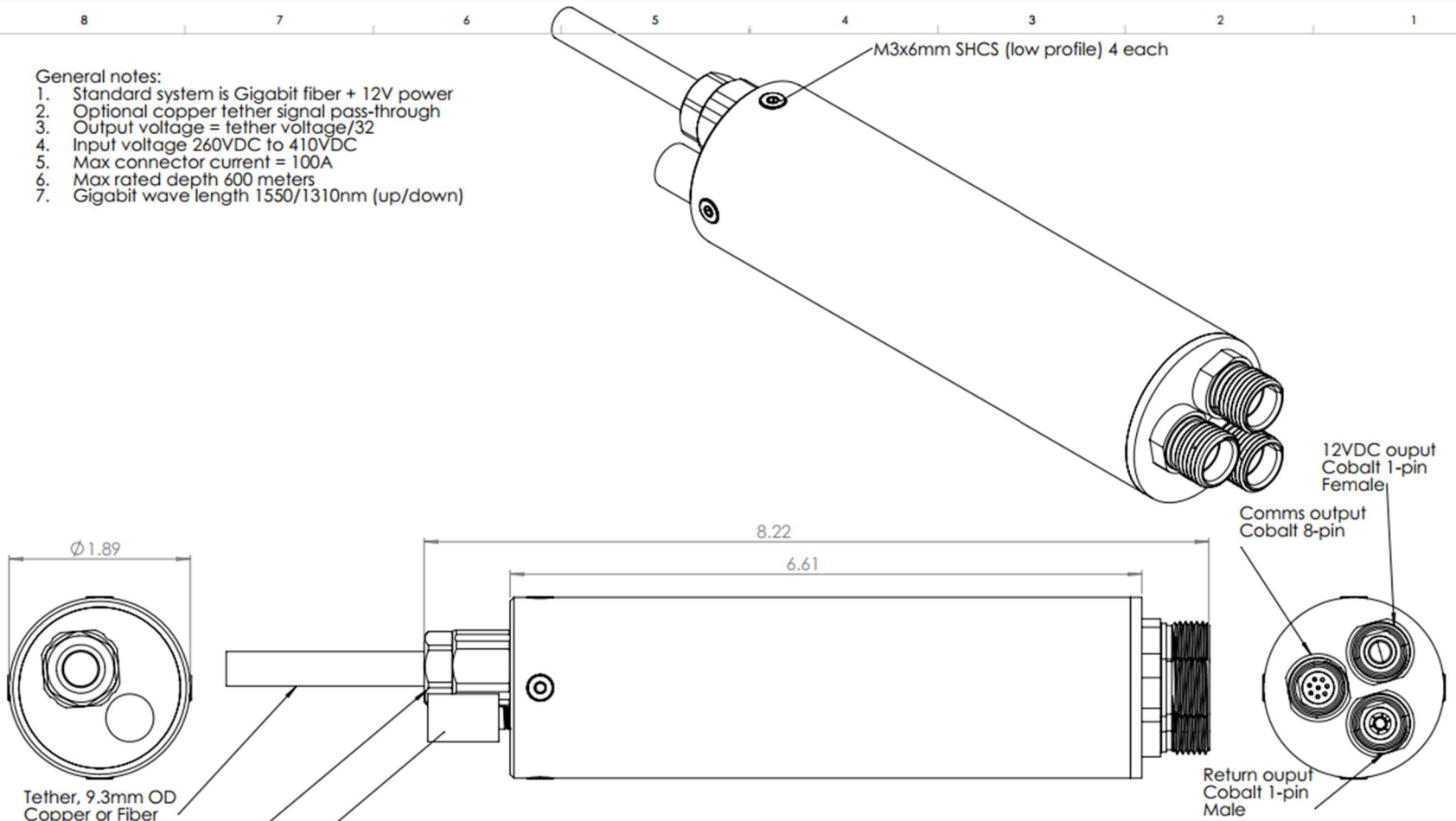




POSEIDON ROBOTICS

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General notes:
1. Standard system is Gigabit fiber + 12V power
2. Optional copper tether signal pass-through
3. Output voltage = tether voltage/32
4. Input voltage 260VDC to 410VDC
5. Max connector current = 100A
6. Max rated depth 600 meters
7. Gigabit wave length 1550/1310nm (up/down)



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NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±0.01
ANGULAR: MACH ±1 BEND ±5
TWO PLACE DECIMAL ±.020
THREE PLACE DECIMAL ±.010
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL: 6061 AL
FINISH: Hard Anodize
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	PBS	20JUL26
CHECKED		
ENG APPR.	PBS	29JUL26
MFG APPR.		
Q.A.		

COMMENTS: General comments

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TITLE: SQUID ASSY, 12V/100A

SIZE	DWG. NO.	REV
B	A0041	2

SCALE: NTS | WEIGHT: | SHEET 1 OF 1