



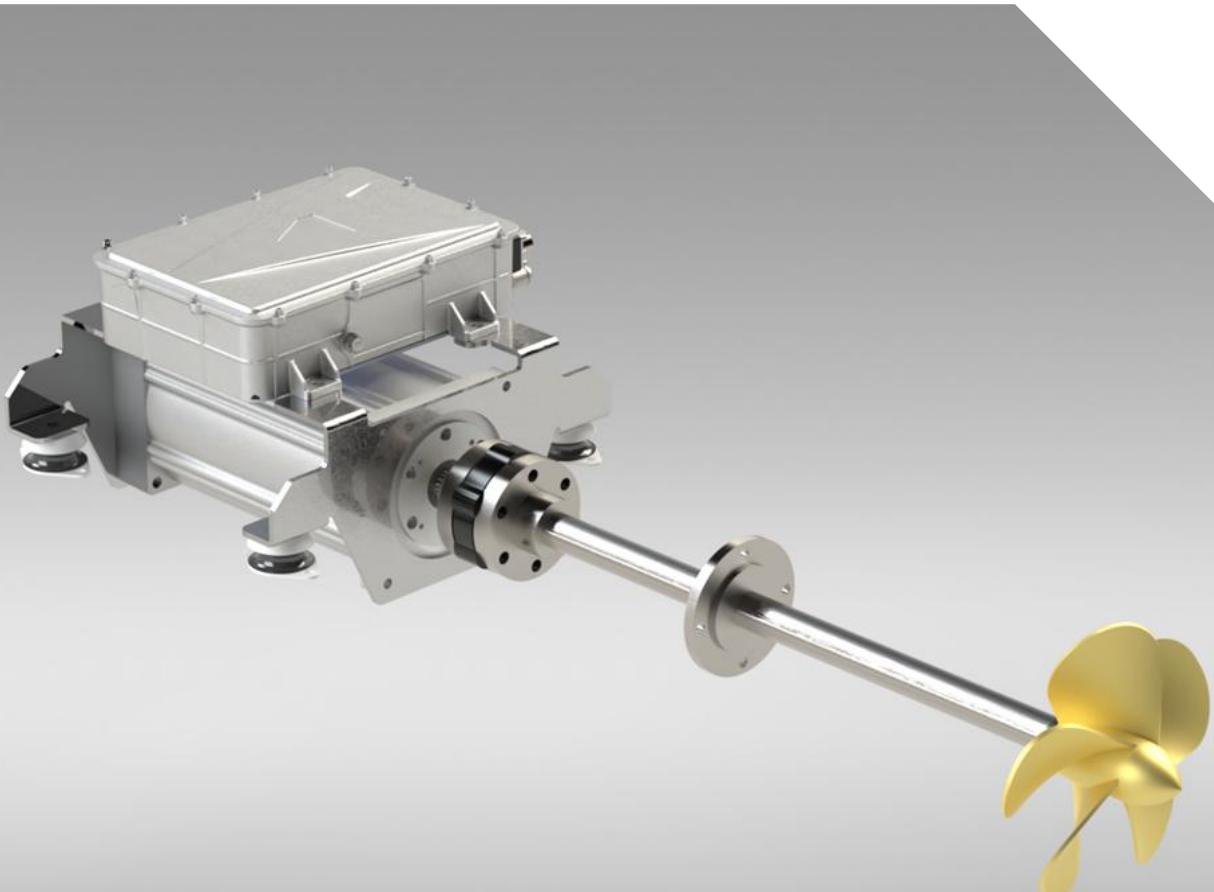
iMV-4U-WN400 + A4001



**Adaptable marine propulsion, designed for
quiet and precise control**

Learn more

Inetictraction.com

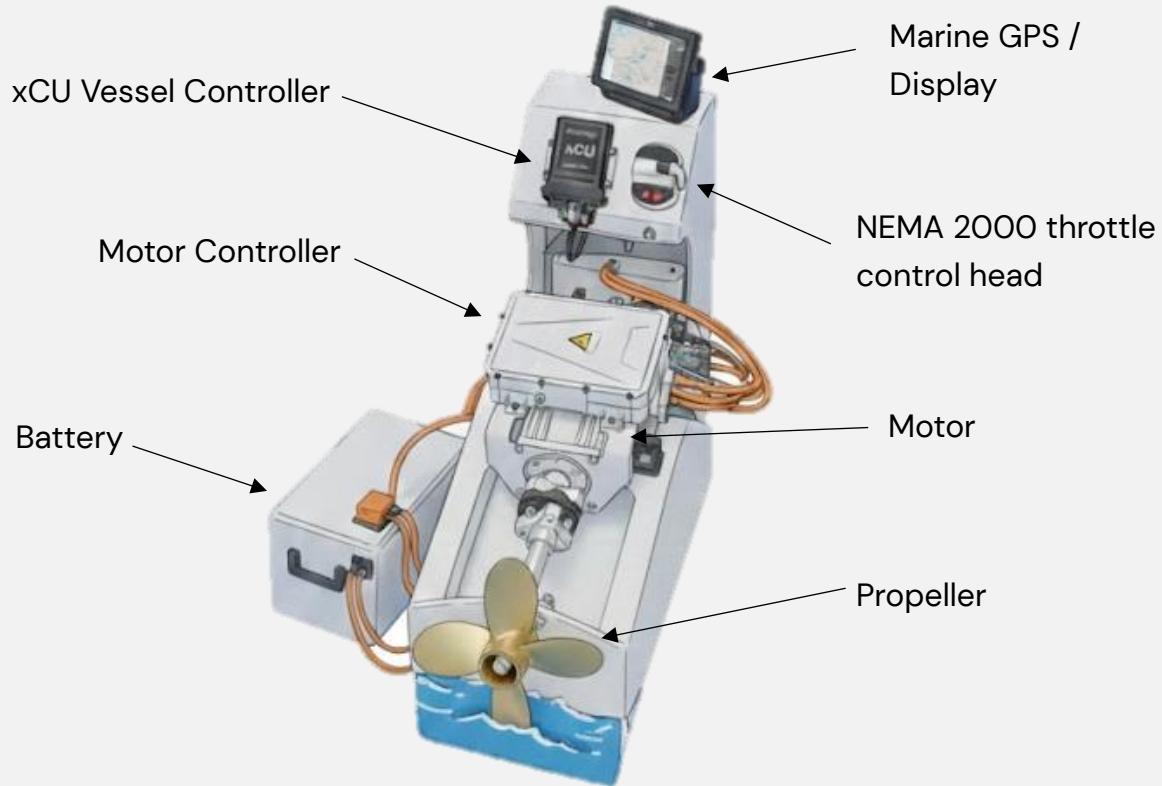


Inetic

iMV-4U-WN400 + A4001



Inverter Data



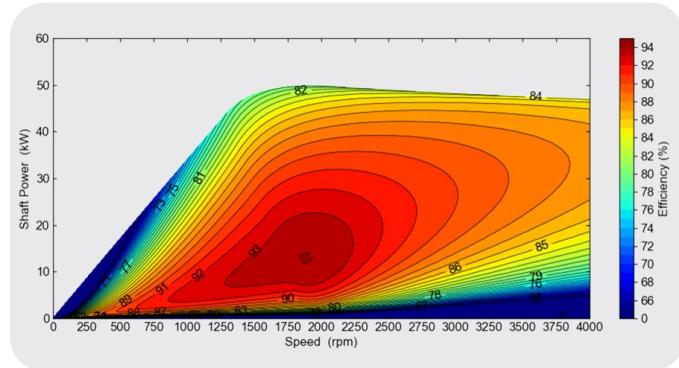
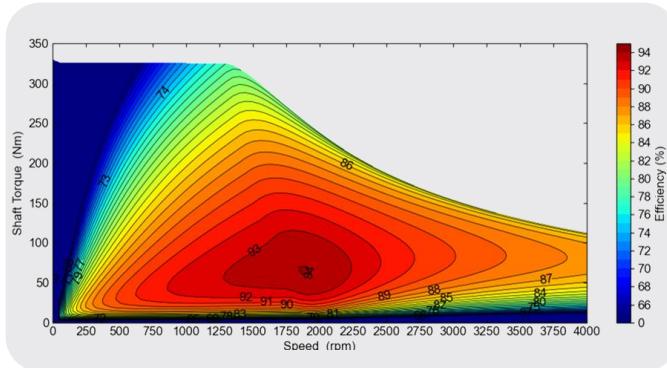
iNetic is able to offer complete powertrain solution as shown above, for more information speak to our representatives.

Inverter Data

Electrical Specification	UNIT	
DC link voltage	VDC	250-420
Max Operational Voltage	VDC	420
Max Current	Arms	410
Continuous Power @400V	kw	150
LV Supply	VDC	9-18
Switching Frequency	kHz	10

Performance Specification		
Working Temperature	°C	-40 to 85
Cooling		Water-Glycol 50:50
Mass	Kg	11.2
Flow Rate	l/m	12-16

Motor Data



Electrical Specification	Peak Torque Speed Efficiency Map	UNIT	Peak Power Speed Efficiency Map
Motor / Generator Type			3-Phase Radial Synchronous Flux Permanent Magnet Motor/Generator
Applications			Sail Drive, Powerboat, Race Application
Maximum DC Voltage (Motor)	VDC		420
Maximum Phase Current (Motor)	Arms		410
Rotor Position Sensor			Resolver

Performance Specification		
Peak Torque (For 10s)	Nm	325
Peak Power (For 10s)	kw	48
Continuous Torque	Nm	148
Continuous Power	kw	33
Torque Density Peak	Nm/L	57
Power Density Peak	kW/L	8

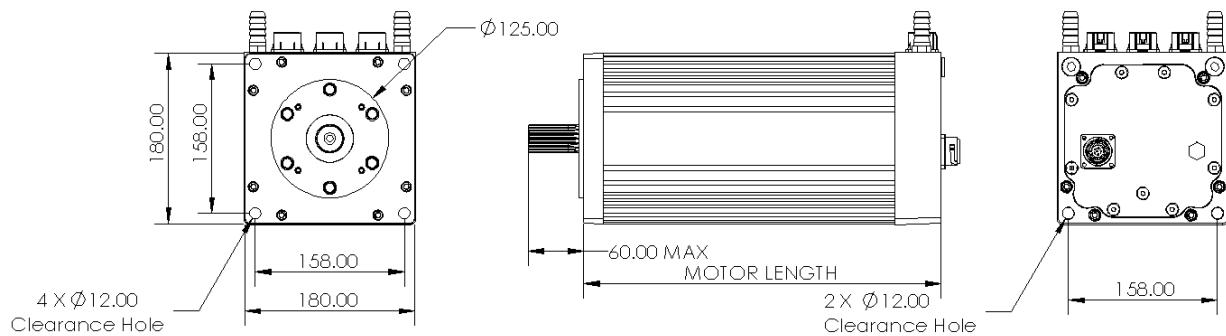
Mechanical Specification		
Cross Section Dimension	mm	180x180
Package Length (Excluding Shaft)	mm	381
Mass	kg	54
Maximum Speed	rpm	4,000
Axial/Radial Shaft Load	N	100N Axial, 200N Radial
Shaft Output		External Spline
Ingress Protection	IP	IP67
Motor Connection Type		PowerLok Connectors
Cogging Torque	Nm	<2.5%

Thermal Specification		
Cooling Method		Water-Glycol 50:50
Coolant Inlet Temperature	°C	-10 to 85
Coolant Inlet Pressure	bar (gauge)	0.5-3.0
Maximum Stator Winding Temperature	°C	180
De-Rate Stator Winding Temperature	°C	165
Temperature Sensor	-	PT1000
Ambient Temperature	°C	-20 to 100

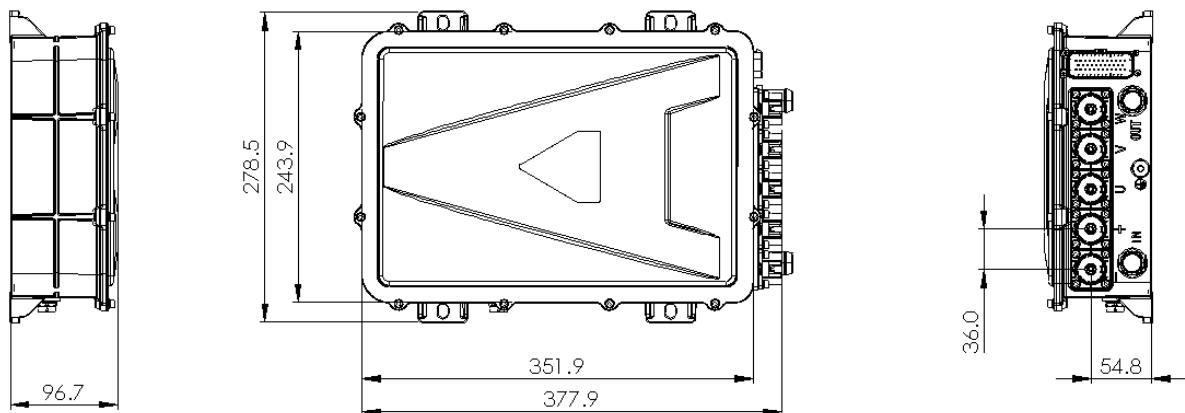
NOTE: 1) Mass: excludes cables and coolant tubes, 2) Peak Values are simulated using 400VDC and 410Arms, 3) Continuous Values are simulated using 400VDC, 70°C inlet temperature and 12l/m flow rate, 4) The data provided in this datasheet is for guidance only and does not form part of any contract. 5) Motor, inverter, gearbox should undergo application testing to validate performance.



Motor Geometry



Inverter Geometry



**Explore inetictraction.com to complete
your drive system with multiple
configurations**