



Your Ride Finally Meets the Future

GOING



for your boat

for a clean ocean, for a better overall experience



DV ELECTRIC & Hybrid PROPULSIONS







ELECTRIC TELECTRINE :

for BETTER EFFICIENCY

Electrification makes everything simple no matter where it is applied. An electric propulsion system doesn't require a regular maintenance list, which means you no longer have to get your hands dirty

"KEEP YOUR HANDS AND OUTFIT CLEAN"



for BETTER PEFORMANCE

Understanding an electric motor, it has more power and torque at lower speeds, which means that an electric motor consumes less energy to make more power. You can feel more power at lower speeds with ELECTRINE propulsion systems with less operating noise and vibration.

"MORE POWER WITH LESS ENERGY CONSUMPTION"



for BETTER EXPERIENCE

ELECTRINE propulsion systems make you experience something you have never experienced compared to gas powered engines. No more feeling guilty from poisoning the maritime environment while you are enjoying your smooth and quiet boat ride with ELECTRINE.

"A MUCH BETTER FEELING"



for BETTER TOMORROW

Your concern for our environment is important to us as well. However, we do not want you to compromise your fun with concerns of the environment. Leave those worries to us.

Please feel free to express your love and enjoyment of your boating experience. We make sure we do our job so the environment is better for now and the future.

"YOUR RIDE FINALLY MEETS THE FUTURE"



From our consistent effort on R&D for numerous years, we have succeeded in manufacturing pure electric outboards and inboard propulsions that are absolutely safe for our precious marine environment and to people as well. You can just enjoy your boat ride while ELECTRINE continues to work for the environment for greater energy conservation, and more importantly for your safety.

















A single ZO90 was installed on a RIB boat.



Twin Z0115s were installed on a pontoon boat with stable integration and performance.



A single ZO90 was installed on a fishery boat.

PURE ELECTRIC & Hybrid PROPULSIONS





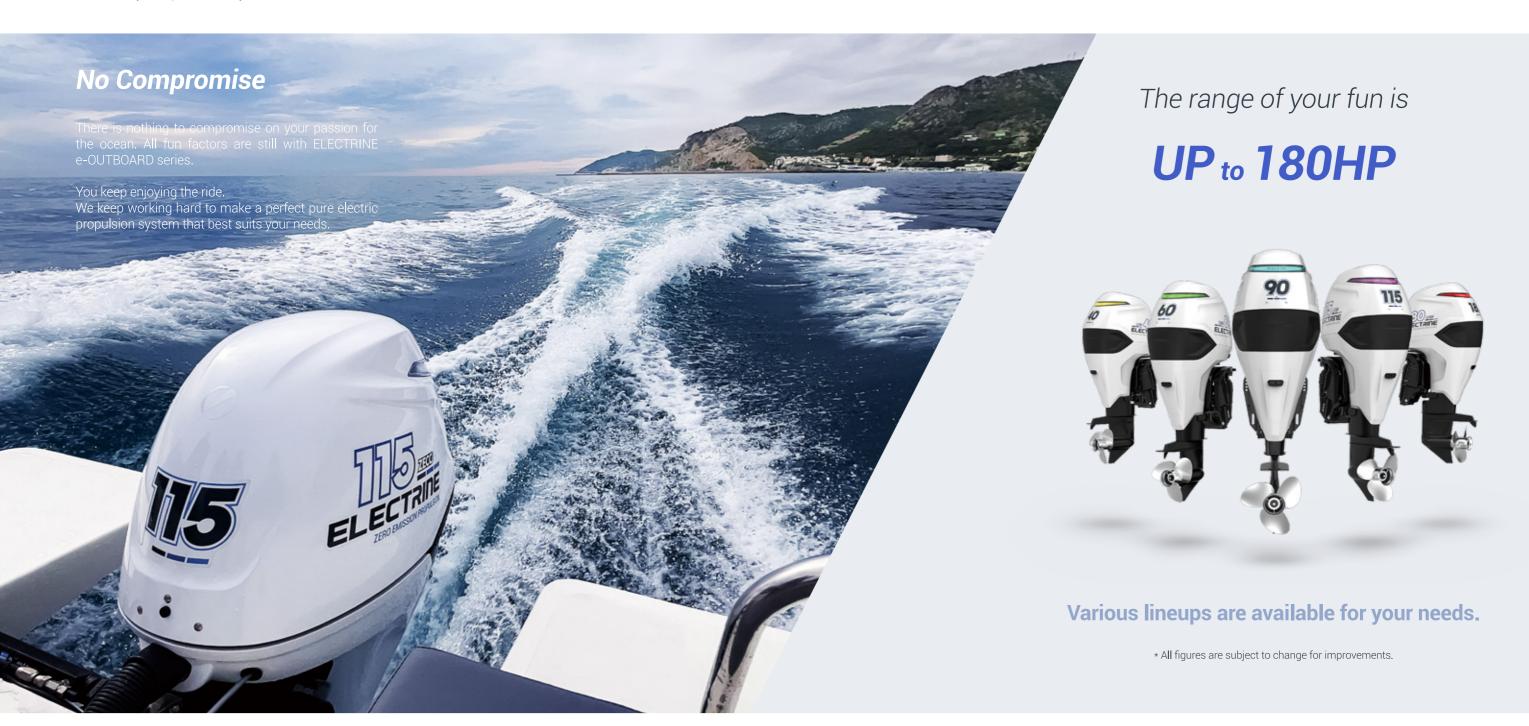




Pure Electric **OUTBOARD**

ELECTRINE e-OUTBOARD series guarantee full satisfaction without any compromise on your choices.

"BETTER PERFORMANCE WITH BETTER CHOICES"



PURE ELECTRIC & Hybrid PROPULSIONS





D PURE ELECTRIC & Hybrid PROPULSIONS by **ELECTRINE**



All Inclusive | Compared | Compa





ELECTRINE Makes an Efficient System

ELECTRINE designed all core parts from scratch and makes them all in-house.

The system includes display, propeller(for outboard only), battery and remote control box

For Your Longer Lasting Enjoyment



• •

ELECTRINE BATTERY PACKS can be added as many as you need.*

*All the information and conditions of your boat must be provided before the maximum battery pack load can be calculated.







^{*} All figures are subject to change for improvements.









Pure Electric INBOARD

ELECTRINE e-INBOARD series significantly reduces the annoying noise and vibration, while providing amazing power.

ELECTRINE e-INBOARD series will provide unforgettable experiences on the water. All products are suitable for both saltwater and freshwater. You can enjoy maintenance-free and cost-saving pure electric propulsion systems.

The system includes



Active Display



Remote Control Box





"SMOOTH OPERATION WITH POWERFUL PERFORMANCE"

The range of your fun is

UP to **350HP**



Various lineups are available for your needs.



Powering the Future

ELECTRINE e-INBOARD Series provide stunning performance from 40HP to 350 HP with smooth delivery. Your ride finally meets the future.

ELECTRINE e-INBOARD Series are designed to perform the same or better than its gas engine counterparts while producing less noise and vibration.

* All figures are subject to change for improvements.

4 PURE ELECTRIC & Hybrid PROPULSIONS

Battery Series

ELECTRINE BATTERY series have been designed for all different circumstances and conditions each boat and operation faces. ELECTRINE BATTERY series can be applied and installed onto any types of boats with various conditions.







Safe Power

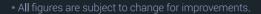
ELECTRINE seriously considers safety as a top priority. That is why we put our best effort on the safe design of battery modules and packs. All battery modules and packs meet the global safety standards. The battery packs are installed after all safety checkups as well as performance tests.

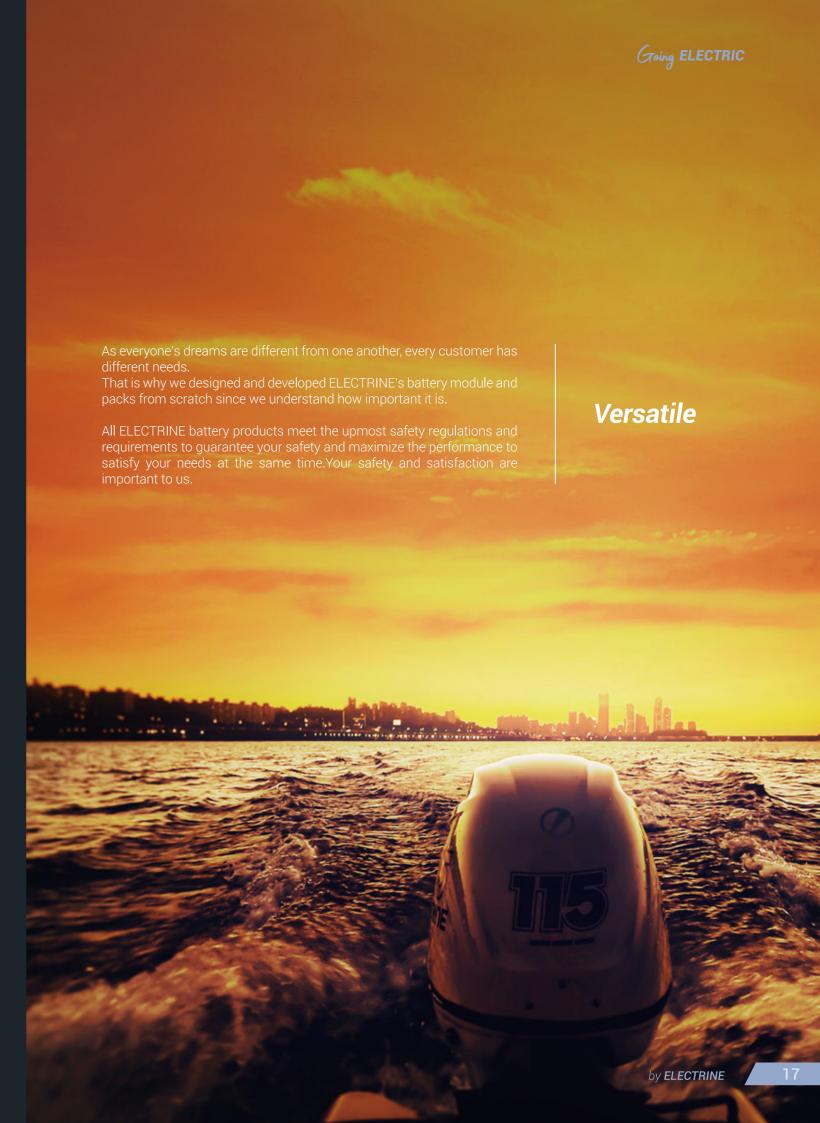
Your safety and satisfaction matter to us.





BF345 33.87kWh (1 Module : 8.5kWh) **BF86** 14 52kWh (1 Module : 3 6kWh)







Super Safe Battery Powerpack Technology

Battery Heat Control System

Applied the CNT (Carbon Nano Tube) heat exchange technology / Maximizing battery efficiency even in low temperatures

Battery Control

• Efficient control and management of Li-ion battery

Optimized Battery Case for Water Resistance

• IP67-level waterproof (Protected from immersion up to 1m in depth)

Easy Battery Replacement

One-touch battery swapping system

Battery Temperature Control System

Maintaining the optimal temperature to let the battery system operate at its best condition

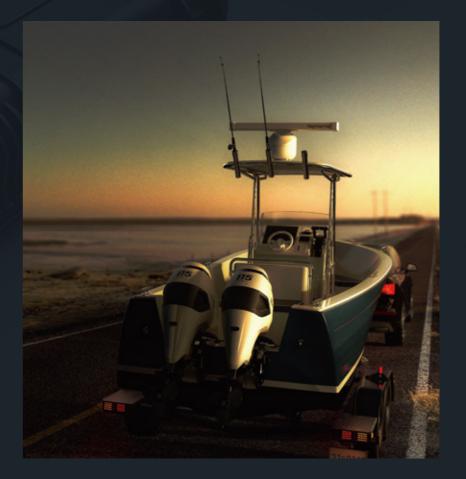
External Material

- P.P is applied to absorb shock, high elasticity, acid resistance, lightweight and scratch resistant
- The influence of external temperature and maintains internal temperature consistently with its heat fiber and cooling pipe

Cooling System

- Maintains internal temperature and heat conduction by applying the copper pipe
- Overheating prevention system by applying refrigerants

BATTERY	BP 36 (Portable)	BF 86 (Fixed)	BF 345 (Fixed)	BR 654 (Rack)	
Nominal Voltage (Vdc)	36	86.4 (43.2 x 2ea)	345.6 (86.4 x 4ea)	654 (43.6 x 15ea)	
Nominal Capacity (Ah)	28	168 (84 x 2ea)	98	154	
Energy (kWh)	1.008	14.52	33.87	100.7 (6.7 x 15ea)	
Operating Voltage (Vdc)	28.0 ~ 41.0	67.2 - 98.4	288 - 384	654.3 V	
Charging Current	Standard 14A (0.5 C-rate)	Standard 84A (0.5 C-rate)	Standard 30A (0.3 C-rate)	70.2A (0.5 C-RATE)	
Discharging Current	Max 80A(2.85 C-rate)	Max 240A(1.43 C-rate)	Max 280A(2.85 C-rate)	MAX. 154 (1 C-RATE)	
Communication	CAN 2.0b	CAN 2.0b	CAN 2.0b	CAN 2.0	
Operation Temperature (Ambient)	-10℃~60℃	-10℃~60℃	-10℃ ~ 60℃	-20 ℃ ~ 60 ℃	
Configuration		4 Modu l e	4 Modu l e	15 Module	
Dimension (mm)	141 x 141 x 260	485 x 842 x 341	992 x 831 x 316	1899 x 890 x 615	
Weight (kg)	6.2	80 (Modu l e : 20 x 4)	188 (Modu l e : 47 x 4)	720 (Module : 45 x 15)	



PURE ELECTRIC & Hybrid PROPULSIONS
by **ELECTRINE**





Specifications

* In Development

							* In Development			
e-OUTBOARD	ZO 40	ZO 60	ZO 90	ZO 115	ZO 150	ZO 180	e-SAILE	PRIVE	ZS 8	ZS 16
Max / Continuous Power (kW)	43 / 23	60 / 40	110 / 65	120 / 84	140 / 120	250 / 140	Max / Conti	nuous Power (kW)	8/6	16/11
Max / Continuous Torque (N.m)	72 / 31	220 / 80	255 / 105	251 / 142	350 / 200	950 / 480	Reduction F		1.93 : 1	1.93 : 1
Operational Speed (rpm)	0-8,000	0-9,000	0-8,500	0-6,000	0 - 13,000		0 - 8,600 Operational Speed (rpm) 320~450 Rated Battery Voltage (Vdc)		0 ~ 3,100	0 ~ 3,100
Operating Battery Voltage (Vdc)	72~96	288~384	288~384	288~384	288~384				48	48
Communication	CAN 2.0b	CAN 2.0b	CAN 2.0b / RS232	CAN 2.0b / RS232	CAN 2.0b	CAN 2.0b Communication 874 x 574 x 1,888 Dimension (mm)			CAN 2.0b	CAN 2.0b
Dimension (mm)	700 x 410 x 1,620	700 x 410 x 1,620	820 x 520 x 1,740	820 x 520 x 1,740	874 x 574 x 1,888				649 x 400 x 1,028	649 x 400 x 1,02
Weight (Kg)				155 Weight (kg)			40.5	46.5		
				22.07						
Battery Capacity Standard (kWh)	14.52	33.87	33.87	33.87	33.87	100	Battery Cap	, , ,	008 (Standard)	1.008 (Standard)
Battery Capacity long (kWh)	29.04	67.74	67.74	67.74	67.74	200	IPDU / Juno	uon Unit	•	•
IPDU / Junction Unit	• N/A	•	•	•	•	•	BCU Onboard Ch	organ	•	•
BCU	N/A	•	•	•	•	•	Onboard Ch		•	•
Onboard Charger	•	•	•	•	•	•	Cluster(Disp	• •	•	•
Cluster(Display)	•	•	•	•	•	•	Remote Cor		•	•
Remote Control Box	•	•	•	•	•	•	Switch Pane	el .	NI/A	• N//A
Switch Panel	•	•	•	•	•	•	Trim & Tilt	1	N/A	N/A
Trim & Tilt	•	•	•	•	•	•	Steering Wh	leel	N/A	N/A
Steering Wheel Tiller	0	0	0	0	O N/A	O N/A	Tiller		N/A	N/A
Electric Steering	0	0	0	0	N/A O	N/A O				
e-INBOARD	ZI 40	ZI 60	ZI 90	ZI 115	ZI 150	ZI 180	ZI 250	ZI 300	ZI 350	ZI 550
Max / Continuous Power (kW)	43 / 23	60 / 40	110 / 65	120 / 84	140 / 120	250 / 140	255 / 190	250 / 210	372 / 260	540 / 430
Max / Continuous Torque (N.m)	72 / 31	220 / 80	255 / 105	251 / 142	350 / 200	950 / 480	2,355 / 900	4,000 / 2,090	3,445 / 1,970	2,500 / 2,0
Operational Speed (rpm)	0-8,000	0-9,000	0-8,500	0-6,000	0 - 13,000	0 - 8,600	0-3,700	0-2,450	0-3,400	0-4,000
Operating Battery Voltage (Vdc)	72~96	288~384	288~384	288~384	288~384	320~450	500~750	500~750	600~750	TBD
Communication	CAN 2.0b	CAN 2.0b	CAN 2.0b	CAN 2.0b / RS232	CAN 2.0b	CAN 2.0b	CAN 2.0b	CAN 2.0b	CAN 2.0b	CAN 2.0b
Dimension (mm)	390 x 359 x 322	390 x 359 x 322	664 x 468 x 475	664 x 468 x 475	797 x 1,029 x 627	797 x 1,029 x 627	863 x 1,076 x 618	902 x 1,200 x 73	902 x 1,200 x 7	33 TBD
Weight (Kg)	65	80	95	95	98.5	98.5	385	495	495	TBD
Dotton Conneit Charles and (1341)	14.50	00.07	22.07	22.07	00.07	67.74	105.40	to 014	d - 014	
Battery Capacity Standard (kWh)	14.52	33.87	33.87	33.87	33.87	67.74	135.48	up to 2M	up to 2M	up to 2M
Battery Capacity long (kWh)	29.04	67.74	67.74	67.74	67.74	135.48	up to 2M	-	-	-
PDU / Junction Unit	• N//A		•	•	•		•	•	•	•
BCU Ophoord Charger	N/A	•	•	•	•	•	•	•	•	•
Onboard Charger	•		•	•	•			•	•	
Cluster(Display)	•	•	•	•	•	•	•	•	•	•
Remote Control Box			•	•	•		•	•	•	•
Switch Panel Steering Wheel	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	_
Waterjet										0
Sterndrive	0	0	0	0	0	0	0	0	0	0

O: Option * All figures are subject to change for improvements.



























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VIDEO



CATALOG

