



JOY6.0

JOY1.2

ELECTRIC OUTBOARD

Specifications	Model	Joy6.0	Joy1.2
Power		6kW	1.2kW
Standard battery		8960Wh*1 - Single box use 4096Wh*2 - Parallel operation	1440Wh
Rated voltage		48V	36V
Motor weight		35±1KG	10.8KG
Battery weight		88KG (8960Wh) 47KG (4096Wh * 1)	9.2KG
Standard charging current		50A	5A
Fast charging current		/	20A
Battery built-in RPM		No	Yes
		1550rpm	1750rpm
Tilt angle		Max60°	0°, 5°, 10°, 15°, 66°
Shaft length		570 (L) / 442 (S) mm	551 (L) / 330 (S) mm
Control mode		Tiller control / Remote control	Tiller control
Drive		direct drive	direct drive
Max static thrust		1170N	320N
Gear		F-N-R	F-N-R
Trim mode		Manual	Manual
Waterproof level		IP67	IP67

TROLLING MOTOR

Specifications	Model	TM120A	TM120B
Motor rated voltage(V)		36/24	12/24
Power(W)		1500 (max1800) /1100 (max1200)	600/1200
Shaft length(in)		50/65	50/65/75/85
Thrust(lbs)		120/80	55/90
Weight(kg)		33	25KG+ (Depending on the configuration)
Spindle material		Composite glass fiber	Fiberglass (50,65in) Carbon Fiber (75,85in)
Motor type		Brushed DC	DC BRUSH
Control Type		Foot Pedal	Remote control / foot pedal
Retraction Type		Maximum Limit Position	Manual lifting+rotation
Heading sensor		Steel cable retraction	Optional
Remote control box		Integrated all-in-one speed reduction steering motor paired with high-precision metal gears for long-lasting durability	Standard
Foot pedal		YES	Damping electronic (optional)
Installation method		Bow	
Noise		<55dB	<55dB
Anchoring function		YES	YES
Warranty		2-year warranty, lifetime warranty on the shaft	2-year warranty, lifetime warranty on the shaft
Anchoring accuracy		1m	1.5m
Jog operation		YES	YES
Long term operation		YES	YES
Infinite speed regulation		YES	YES
Fixed heading		YES	YES
Route record		NO	YES
Route operation		NO	YES
Route reversal		NO	YES
Cruise		NO	YES
MEGA DI/SI support		NO	YES
Expand fish exploration bracket		NO	YES



TM120A

TM120B



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OUTBOARD MOTOR

DIESEL OUTBOARD | 4-STROKE GASOLINE OUTBOARD | 2-STROKE GASOLINE OUTBOARD | ELECTRIC OUTBOARD | TROLLING MOTOR

DIESEL OUTBOARD



Specifications	Model	D200	D175	D150
Max. Output Power (HP/Kw)		200HP 147kW	175HP 129kW	150HP 110kW
Transom Height(in.)		25/30/35		
Engine Type		L4 diesel, WGT turbocharged, intercooler, closed cooling circuit, heat exchanger / raw water		
Displacement(cc)		1996		
Bore*Stroke(mm)		83.0 X 92.0		
Ignition System		Compression ignition		
Fuel Injection System		Common rail direct injection		
Max. RPM Range (r/min)		4000		
Idling RPM Range (r/min)		600-700		
Steering System		hydraulic steering/remote control		
Starting System		Electric		
Gear Shift		F-N-R		
Gear Ratio		high-speed:1.64:1 high-thrust:2.36:1		
Trim and Tilt System		Power trim & tilt		
Max. Fuel Consumption(L)		43	36	31
Engine Oil Capacity(L)		6		
Gear Oil Capacity(cc)		Upper unit:1800 Lower unit:1328		
Alternator Output		12V, 120A		
Propeller Options(in.)		high-speed:3-16-19 high-thrust:4-16-19		
Weight(KG)		≈360		
Recommended type of diesel		0#/ULSD/EN590		



4-STROKE GASOLINE OUTBOARD



300hp-200hp



130hp-85hp



60hp-30hp



20hp-2.6hp

- How to choose the correct model?
Suffixes for different models.
B=Back control (Tiller control), F=Front control (Remote control)
M=Manual start, E=Electric start, W=Electric start + Manual start
S=Short shaft, L=Long shaft, X=Ultra-long
"D"=Hydraulic elevator, "T"=Electric tilt
For our 4-stroke 100hp, 115hp & 130hp.
"L"=left rotation without "L"= right rotation
- How to choose the shaft with S or L or X?
Pls choose the shaft size based on the transom height of your boat.
Transom height of boat: S=15"(in.)
Transom height of boat L=20"(in.)
Transom height of boat X=25"(in.)

* The propeller should be selected according to the size and application of the boat.

Model Specifications	T90	T85	T75	T60A	T50A	T40	T40J	T40G	T30A	T25	T20	T18	TE15	T15	T9.9	T9.8	T8	T5.8	TC5	T5	TC3.6	T3.6	T2.5	T2.6C	T2	
Models	T90BML-D T90BMX-D T90BEL-D T90BEX-D T90FEL-T T90FEX-T	T85BML-D T85BMX-D T85BEL-D T85BEX-D T85FEL-T T85FEX-T	T75BML-D T75BMX-D T75BEL-D T75BEX-D T75FEL-T T75FEX-T	T60ABML-D T60ABWL-D T60AFWL-T	T50ABML-D T50ABWL-D T50AFWL-T	T40BMS T40BML T40BWS T40BWL T40BWS T40BWL-T T40FWL-T	T40JBMS T40JBML T40JBWS T40JBWL T40JBWS T40JBWL	T40GBMS T40GBML T40GPWS T40GFWL T40GBWS T40GBWL	T30ABMS T30ABML T30APWS T30AFWL T30ABWS T30ABWL	T25BMS T25BML T25FWS T25FWL T25BWS T25BWL	T20BMS T20BML T20FWS T20FWL T20BWS T20BWL		T18BMS T18BML T18FWS T18FWL	TE15BMS TE15BML	T15BMS T15BML	T9.9BMS T9.9BMLL	T9.8BMS T9.8BML	T8BMS T8BML	T5.8BMS T5.8BML	TC5BMS TC5BML	T5BMS T5BML	TC3.6BMS TC3.6BML	T3.6BMS T3.6BML	T2.5BMS T2.5BML	T2.6CBMS	T2CBMS
Max. Output Power (HP/kW)	90HP(66.2kW)	85HP(62.5kW)	75HP(55.2kW)	60HP(44.1kW)	50HP(36.8kW)	40HP(29.4kW)	40HP(29.4kW)	40HP(29.4kW)	30HP(22kW)	25HP(18.4kW)	20HP(14.7kW)	18HP(13.2kW)	15HP(11kW)	15HP(11kW)	9.9HP(7.3kW)	9.8HP(7.2kW)	8HP(5.9kW)	5.8HP(4.3kW)	5HP(3.6kW)	5HP(3.6kW)	3.6HP(2.64kW)	3.6HP(2.64kW)	2.5HP(1.8kW)	2.6HP(1.9kW)	2HP(1.5kW)	
Transom Height (in.)	20/25			20/22		15/20		15/20		15/20		17/22		15/20		15/20		15/20		15/20		15				
Engine Type	L3			L3		L2		L2		L2		L2		L2		L2		L1		L1		L1				
Displacement(cc)	1141			849		703		669		496		294		246		169		102		74.6		50				
Bore*Stroke(mm)	82.0*72.0			72.0*69.5		80.0*70.0		78.0*70.0		72.0*61.0		60.0*52.0		56.0*50.0		50.0*43.0		55.0*43.0		47.0*43.0		42.0*36.0				
Ignition System	C.D.I			C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		T.C.I		T.C.I				
Max. RPM Range (r/min)	4500-5500			4500-5500		4500-5500		4500-5500		4500-5500		5200-5800		4500-5500		5000-6000		4500-5500		4500-5500		4000-5000				
Idle RPM Range (r/min)	750-850			950-1050		950-1050		1100-1200		1100-1200		950-1050		1000-1100		950-1050		1150-1250		1000-1100		1450-1550		1100-1200		
Fuel Injection System	Carburetor			Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor				
Steering System	Tiller/Remote Control			Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller		Tiller		Tiller		Tiller		Tiller				
Starting System	Manual/Electric			Manual/Electric		Manual/Electric		Manual/Electric		Manual/Electric		Manual		Manual		Manual		Manual		Manual		Manual				
Gear Shift	F-N-R			F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N		F				
Gear Ratio	2.0			2.33		2.0		2.0		1.85		2.08		1.85/2.15		2.08		2.15		2.08		2.08				
Trim and Tilt System	Gas-assist/Electric			Gas-assist/Electric		Gas-assist/Electric		Manual		Manual		Manual		Manual		Manual		Manual		Manual		Manual				
Fuel Tank(L)	24			24		24		24		24		24		24		12		Built-in2.7		Built-in1.5		Built-in1.2				
Max. Fuel Consumption (l/h)	37	35	34	25.5	21.5	20	20	20	12	11	9.4	9	7.7	7.9	5.1	5.1	4.3	3.1	2.6		1.8	1.4	1.5	1.3		
Lubrication system (gasoline/oil)	50:1			50:1		50:1		50:1		50:1		50:1		50:1		50:1		50:1		50:1		50:1				
Gear Oil Capacity(cc)	610			610		430		315		320		370		250		320		195		100		195		45		
Max charging(A)	12V;7A			12V;7A		12V;7A		12V;7A		12V;7A		/		/		/		/		/		/				
Propeller Options(in.)	3-13 1/4"×17" or 3-13 5/8"×13"			3-13 1/4"×17" or 3-13 5/8"×15" or 3-13 5/8"×13"		3-11 1/2"×12" or 3-11 1/4"×13"		3-11 1/2"×11"		3-9 7/8"×11 1/4" or 12"		3-9 1/4"×9"		3-9 1/4"×8" or 10" or 11" or 12"		3-8 9/8"×8.3"		3-7.8"×8"		3-7 1/2"×7" or 3-7 1/4"×6"		3-7 1/4"×5"				
Weight(KG)	115-122			102-107		73.5-81.7		65-68.5		63.8-69.3		52-57.5		41-42		38-40		36-37.5		26-27		14.5-15.5		9.8		

2-STROKE GASOLINE OUTBOARD



90hp-50hp



40hp-20hp



18hp-2hp

Model	F300	F250	F200	F130	F115	F100	F90	F85	F60	F50	F60	F50	F40	F30	F20A/E	F15A/E	F15	F9.9	F9.8	F8	F6A	F5	F4	F2.6
Specifications																								
Models	F300FEX-T-EFI F300FEU-T-EFI F300FEL-T-EFI F300FEX-T-EFI-L F300FEU-T-EFI-L F300FEL-T-EFI-L	F250FEX-T-EFI F250FEU-T-EFI F250FEL-T-EFI F250FEX-T-EFI-L F250FEU-T-EFI-L F250FEL-T-EFI-L	F200FEX-T-EFI F200FEU-T-EFI F200FEL-T-EFI F200FEX-T-EFI-L F200FEU-T-EFI-L F200FEL-T-EFI-L	F130FEL-T-EFI F130FEU-T-EFI F130FEL-T-EFI-L F130FEX-T-EFI-L	F115FEL-T-EFI F115FEU-T-EFI F115FEL-T-EFI-L F115FEX-T-EFI-L	F100FEL-T-EFI F100FEU-T-EFI F100FEL-T-EFI-L F100FEX-T-EFI-L	F90FEL-T-EFI F90FEU-T-EFI F90FEL-T-EFI-L F90FEX-T-EFI-L	F85FEL-T-EFI F85FEU-T-EFI F85FEL-T-EFI-L F85FEX-T-EFI-L	F60BEL-CT-EFI F60BEL-T-EFI F60BEL-D-EFI F60BEL-T-EFI	F50BEL-CT-EFI F50BEL-T-EFI F50BEL-D-EFI F50BEL-T-EFI	F60BEL-D-EFI F60BEL-T-EFI F60BEL-D-EFI F60BEL-T-EFI	F50BEL-D-EFI F50BEL-T-EFI F50BEL-D-EFI F50BEL-T-EFI	F40BES-D-EFI F40BEL-D-EFI F40BES-T-EFI F40BEL-T-EFI F40FES-T-EFI F40FEL-T-EFI	F30BES-D-EFI F30BEL-D-EFI F30BES-T-EFI F30BEL-T-EFI F30FES-T-EFI F30FEL-T-EFI	F20A/E BML F20A/E BMS F20A/E BML F20A/E BWS F20A/E FWL F20A/E FWS	F15A/E BML F15A/E BMS F15A/E BML F15A/E BWS F15A/E FWL F15A/E FWS	F15BML F15BMS F15BML F15BWS F15FWL F15FWS	F9.9BML F9.9BMS F9.9BML F9.9BWS F9.9FWL F9.9FWS	F9.8BML F9.8BMS F9.8BML F9.8BWS F9.8FWL F9.8FWS	F8BML F8BMS F8BML F8BWS F8FWL F8FWS	F6ABMS F6ABML	F5BMS F5BML	F4BMS F4BML	F2.6BMS F2.6BML F2.6ABMS F2.6ABML
Max. Output Power (HP/kW)	300HP (220.6kW)	250HP (183.7kW)	200HP (147kW)	130HP (95.6kW)	115HP (84.6kW)	100HP (73.5kW)	90HP (66.2kW)	85HP (62.5kW)	60HP(44.1kW)	50HP(36.8kW)	60HP(44.1kW)	50HP(36.8kW)	40HP(29.4kW)	30HP(22.05kW)	20HP(14.7kW)	15HP(11kW)	15HP(11kW)	9.9HP(7.3kW)	9.8HP(7.2kW)	8HP(5.9kW)	6HP(4.4kW)	5HP(3.6kW)	4HP(2.9kW)	2.6HP(1.9kW)
Transom Height (in.)		25/30/35				20/25			20		20		15/20		15/20		15/20		15/20		15/20		15/20	
Engine Type		V-6(60"),DOHC(Intake VVT)				L4DOHC			L4SOHC		L4SOHC		L3SOHC		L2SOHC		L2SOHC		L2SOHC		OHV		OHV	
Displacement(cc)		4169				1832			996		996		747		362		323		209		148		112	
Bore*Stroke(mm)		96.0*96.0				81.0*88.9			65.0*75.0		65.0*75.0		65.0*75.0		63.0*58.1		59.0*59.0		55.0*44.0		64.0*46.0		59.0*41.0	
Ignition System		T.C.I				T.C.I			T.C.I		T.C.I		T.C.I		C.D.I./T.C.I		C.D.I		C.D.I		C.D.I		T.C.I	
Max. RPM Range (r/min)		5000-6000				5300-6300			5000-6000		5000-6000		5000-6000		5000-6000		4500-5500		5000-6000		4500-5500		4000-5000	
Idle RPM Range (r/min)		600-700				800-900			850-950		850-950		850-950		1000-1100		900-1000		900-1000		1450-1550		1500-1600	
Fuel Injection System		(multi-point) EFI				EFI			EFI		EFI		EFI		Carburetor/EFI		Carburetor		Carburetor		Carburetor		Carburetor	
Steering System		Hydraulic / Remote Control				Remote Control			Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller		Tiller	
Starting System		Electric				Electric			Electric		Electric		Electric/Manual		Electric/Manual		Electric/Manual		Electric/Manual		Manual		Manual	
Gear Shift		F-N-R				F-N-R			F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R	
Gear Ratio		1.73				2.15			2.33		1.85		2		E - 1.85 / A - 2.08		2.08		2.08		2.15		2.08	
Trim and Tilt System		Electric				Electric			Gas-assist/Electric		Gas-assist/Electric		Gas-assist/Electric		Manual		Manual		Manual		Manual		Manual	
Engine Oil Capacity(L)		/				/			24		24		24		24		24		12		Built-in1.3		Built-in1.3	
Max. Fuel Consumption (L/h@5500rpm)		105		44	38.9	33.9	30.5	30	20	18.5	20	18.5	13.8	6.9	5.4	5.3	3.5	3.4	2.8	2.3	2	1.6		1.1
Engine Oil Capacity (L)		6.0				3.0			2.5		2.5		1.7		1.6		1.0		0.8		0.6		0.5	
Gear Oil Capacity(cc)		CW:1480 CCW:1328				CW:760 CCW:715			610		430		430		A-250/E-370		250		320		195		100	
Max charging(A)		12V,55A				12V,27A			12V,27A		12V,25A		12V,25A		12V,7A		12V,7A		12V,7A		12V,7A		/	
Propeller Options(in.)		3-16 1/4"×17"				3-13 1/4"×17" or 3-13 1/2"×15"			3-13 1/8"×12" or 3-11 1/8"×13"		3-11 1/8"×12" or 3-11 1/4"×13"		3-11 1/8"×12" or 3-11 1/4"×13"		3-9 1/4"×8"10"/11"/12"		3-9 1/4"×8"10"/11"/12"		3-8 9/8"×8.3"		3-7.8"×9"		3-7 1/2"×7"	
Weight(KG)		280-290				181-185			113-114.5		113-114.5		99.9-103		51.7-55.7		49-53		38-43		27-28		24.5-25.5	