

PROPULSION ENGINE

# N4.38

## SPECIFICATIONS



Power at crankshaft	27.6 kW [37.5 hp]	Engine base	Kubota
Displacement	1.498 l [91 in <sup>3</sup> ]	Fuel system	Mechanical Indirect injection
Configuration	4 cylinders in line	Air intake	Natural
Operation type	4 strokes Diesel	Cooling	Closed cooling with heat exchanger
Bore & Stroke	78 x 78.4 mm [3.07 x 3.09 in]	Max mounting angle	15° Front down 15° Front up
Compression ratio	23 : 1	Alternator	12 Volt 120 Amp
Rated speed	3000 rpm	Rating	M4
Idling speed	850 rpm	Emission compliance	RCD 2013/53/EU EPA marine Tier 3 BSO 2
Peak torque	94.8 Nm	Dry weight	
Peak torque speed	2200 rpm	with TMC60	153 kg [337 lbs]
		with Sail Drive SP60	184 kg [405 lbs]



GENERAL  
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# N4.38

27.6 kW [37.5 hp] at 3000 rpm

## TECHNICAL DESCRIPTION

### ENGINE BLOCK

- 4 Cylinders in line
- Gear-driven valve train
- Water cooled exhaust manifold

### FUEL SYSTEM

- Mechanical governor
- Cam driven in-line injection pump
- Fuel feed pump with hand primer
- Fuel filter

### LUBRICATION SYSTEM

- Replaceable full-flow oil filter
- Oil dipstick
- Oil cooler

### COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

### ELECTRICAL SYSTEM & INSTRUMENTATION

- 12 V Electrical system
- 12 V / 120 A alternator
- Electric starter motor
- Electric stop function
- Instrumentation panel, including Start/ Stop, tachometer & alarms
- Extension cable harness with plug-and-play

### AIR INTAKE

- Mounted air cleaner

### OTHER FEATURES

- Flexible engine mounting
- Bracket for control cables

### OPTIONAL EQUIPMENTS & ACCESSORIES

- Keel cooling adaptation
- Complete marine propulsion systems
- Throttle and shift controls
- Additional instrumentation, Flying bridge extension harness
- Polyester frame (Sail Drive version)
- Engine mounting adaptation
- Two pole electrical system
- Water boiler systems
- Stuffing box connections
- Complete fuel systems
- Complete exhaust systems
- SOLAS approved version

### RATINGS

- Up to 3000 annual operating hours
- Load factor up to 40%
- Full power for no more than 1 hour out of each 12 hours of operation. The remaining time must be at, or below cruising speed

### TRANSMISSIONS

#### SHAFT LINE

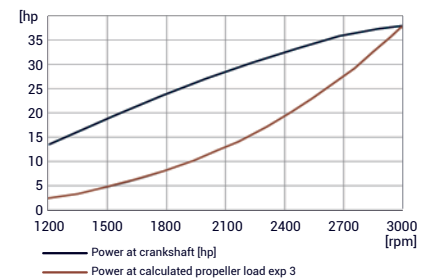
- TMC40
- TTMC35A - TTMC35P
- ZF12 - ZF12M
- ZF25A

#### SAIL DRIVE

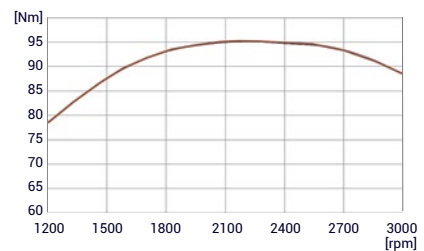
- Sail Drive SP60
- Contact your Nanni representative for more details and availability about transmissions types and models range.

## PERFORMANCE CURVES

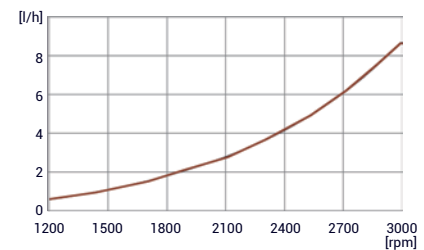
### POWER AT CRANKSHAFT



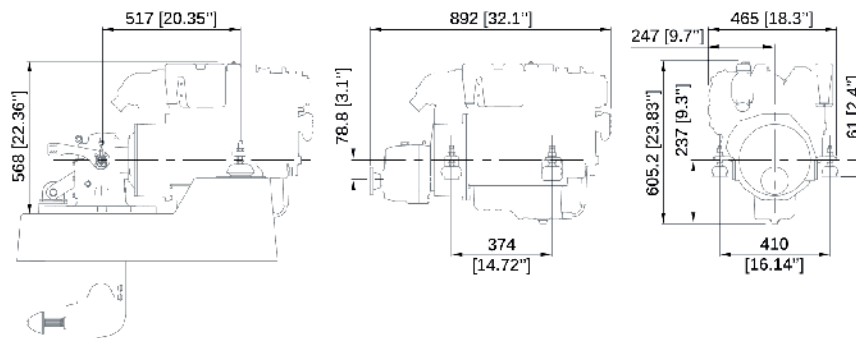
### TORQUE AT CRANKSHAFT



### FUEL CONSUMPTION



## DIMENSIONS WITH SP60 / TMC60



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