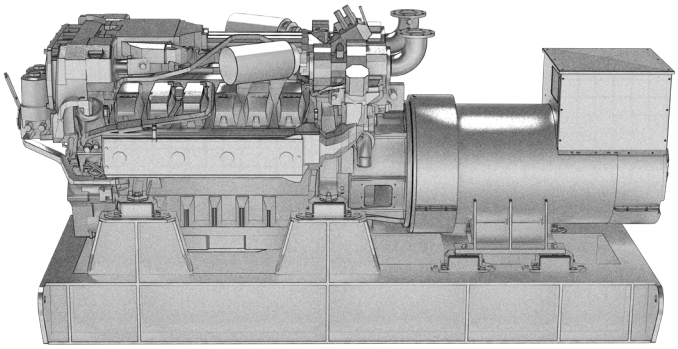
MARINE GENERATOR

568WT50 - 668WT50 - 50 Hz
664WT60 - 764WT60 - 60 Hz
3 Phase Diesel - Tier III

Q24000 Series



GENSET WEIGHT & DIMENSIONS

Weight, kg [lbs]	5400 [11904,96]
Length, mm [in.]	3665 [144,29"]
Width, mm [in.]	1405 [55,31"]
Height, mm [in.]	1736 [68,34"]

GENERATOR RATINGS

Genset	Volts	Phases	Amps per Phase	kWe/kVA PRP
568WT50	380-415	3	1024,80	568/710
668WT50			1203,41	667/833
664WT60	440-480-690	3	1087,45	663/828
764WT60			1251,47	763/953

Cos Phi = 0,8
PRP = Prime Running Power

POWER CLASS According to ISO 8528-1.

Prime **R**unning **P**ower - Unrestricted running time. Time at full load ≤ 5500hrs/year. Load variation ≤ 75 % of rated power. 10 % overload is allowed for 1hr every 12hrs.

General Characteristics

- Designed, Assembled and Tested by NANNI.
- Standard arrangement with 2-bearing motor and alternator, connected by a clutch housing and resiliently supported on the support frame.
- Common Rail Electronic Injection.
- Integrated lubrication system with extraction pump.
- Motor-integrated raw water cooling with pump, heat exchanger and expansion tank.
- Control box with 3-meter cable for flexible installation in engine compartment.

Engine features

- MAN Engine Base - EPA Tier III - 50/60 Hz
- Cast-iron motor block
- Diesel engine 4 strokes, 12 cylinders, 24240 cm^3 [1479,21 in^3]
- Gear driven valve train
- Common-rail fuel injection with high pressure pump
- Automatic preheating system
- Lifting eyelets

Generator features

- Leroy Somer alternator
- Protection class: IP23
- Insulation class: H
- Voltage regulation
- Interference suppression

Standard equipement

- Bipolar 24 Volts Electric system
- Wet Exhaust
- Heat Exchanger
- Raw water Pump with neoprene rotor
- Safeguards on the main parameters
- Pressetting for paralleling system

Optional Equipement

- Pneumatic Air start
- Vessel-side cooling (HT and LT systems)
- Exhaust compensator and silencer
- Alternator heating
- Winding temperature sensors
- Alternator repair kit (Diodes, AVR, Varistor)
- Set of alternator bearings
- Set of 2 filters (Air, Fuel, & Engine Oil)
- Warranty extension
- System Commissioning
- Support & After Sales by NANNI
- Sound shield cabin

ISO 9001 BUREAU VERITAS Certification

Q24000 Series

MARINE GENERATOR

PERFORMANCE DATA ENGINE 50 Hz

Genset model	568WT50	668WT50
Rated Power 100% (kW)	600	700
Max Power 110% (kW)	660	770
Speed (rpm)	1500	1500
Bore (mm)	128	128
Stroke (mm)	157	157
Displacement (liters)	24,24	24,24
Rated torque (Nm)	3820	4456
Compression ratio	17:1	17:1
Mean effect pressure (bar)	19,80	23,10
Mean piston speed (m/s)	7,85	7,8
Lube cons max (g/h)	150	175

PERFORMANCE DATA ENGINE 60 Hz

Genset model	664WT60	764WT60
Rated Power 100% (kW)	700	800
Max Power 110% (kW)	770	880
Speed (rpm)	1800	1800
Bore (mm)	128	128
Stroke (mm)	157	157
Displacement (liters)	24,24	24,24
Rated torque (Nm)	3714	4244
Compression ratio	17:1	17:1
Mean effect pressure (bar)	19,25	22,00
Mean piston speed (m/s)	9,4	9,4
Lube cons max (g/h)	175	200

COMBUSTION PARAMETERS ENGINE 50 Hz

Genset model	568WT50	668WT50
Intake air temp (°C)	45	45
Intake air vacuum (mbar)	30/60	30/60
Intake volume flow (m^3/h)	2560	2550
Air temp after cooler (°C)	41	42
Exhaust gas temp (°C)	400	481
Exhaust gas vol flow (m^3/h)	5850	6595
Exhaust gas mas flow (kg/h)	2900	1160
Exhaust bck pressure (mbar)	20/80	20/80

COMBUSTION PARAMETERS ENGINE 60 Hz

Genset model	664WT60	764WT60
Intake air temp (°C)	45	45
Intake air vacuum (mbar)	30/60	30/60
Intake volume flow (m^3/h)	3100	2900
Air temp after cooler (°C)	43	45
Exhaust gas temp (°C)	400	498
Exhaust gas vol flow (m^3/h)	6920	7650
Exhaust gas mas flow (kg/h)	3480	3395
Exhaust bck pressure (mbar)	20/80	20/80

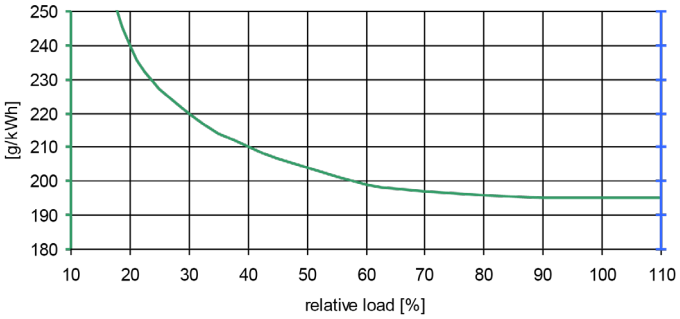
ENGINE ELECTRICAL SYSTEM

Battery recommended:	2x12 V /145 Ah / 800 CCA
Electrical Starter Motor:	24 V/5,5 kW
Engine Alternator:	Three phase 28 V/110 A

ALTERNATOR GENERAL CHARACTERISTICS

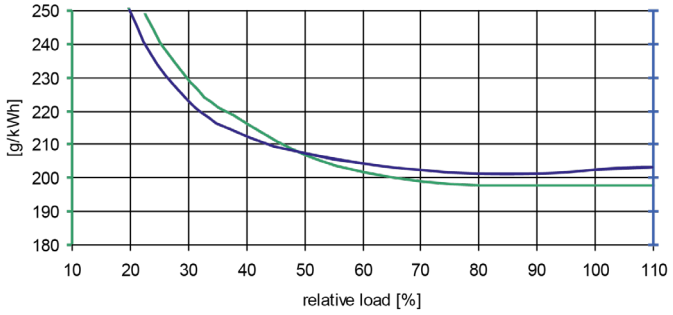
Brand:	Leroy Somer
Model type:	LSAM
Insulation Class:	H
Frequency:	50-60 Hz
Standard protection:	IP23
Voltage regulation:	+/- 0,5 %

FUEL CONSUMPTION vs. LOAD [Grams/h] 50 Hz*



568WT50 668WT50

FUEL CONSUMPTION vs. LOAD [Grams/h] 60 Hz*



664WT60 764WT60

*Regarding Diesel fuel density of 850 kg/m^3.

ADVANCED DIGITAL CONTROL PANEL

- Marine certified hardware
- Resilience to marine environment
- Genset controller for stand-by and prime-power
- All-in-one intuitive & powerful PC tool for configuration/ monitoring/control, locally or remotely
- Easy to install, configure and use

KEY FUNCTIONS AND PROTECTIONS

- Stand-by and prime-power application in one unit
- TFT 5" LCD Panel (800 x 400 px)
- Possibility of screens customization (Screen Editor)
- Inbuild RS485
- Ethernet Port 10/100 Mbit RJ45
- Plug and Play Operation
- 5 Configurable user buttons under the screen
- Trends monitoring screen (up to 4 channels)
- Communication with Controler via Ethernet
- User setpoints and protections
- Multilanguage
- One analog input, one binary output
- Compatible with InteliGen 1000 Marine and InteliMains 1010 Marine controllers

POWER SUPPLY & OPERATING CONDITIONS

- Power supply range: 8-36 V D.C
- Power consumption: 6 W
- Front Panel protection: IP 65
- Vibration:5-25 Hz, +/- 1,6 mm. 25-100 Hz a = 4g
- Operating temperature: -20 to + 70°C
- Operative humidity: 95 % non-condensing [EN 60068-2-30]
- Dash board foot-print: 187 x 132 mm.

ACCESSORIES

Siphon break

- Siphon break is mandatory on Gensets installed below the vessel waterline. This device prevents direct siphoning of seawater into the engine via exhaust line.
- To this, provision is made at the bottom of the genset to fit inlet and outlet hoses lines.

Output power protection

- A heavy duty circuit breaker [C.E & U.L approved], protects the generator against extreme and adverse external overloads.

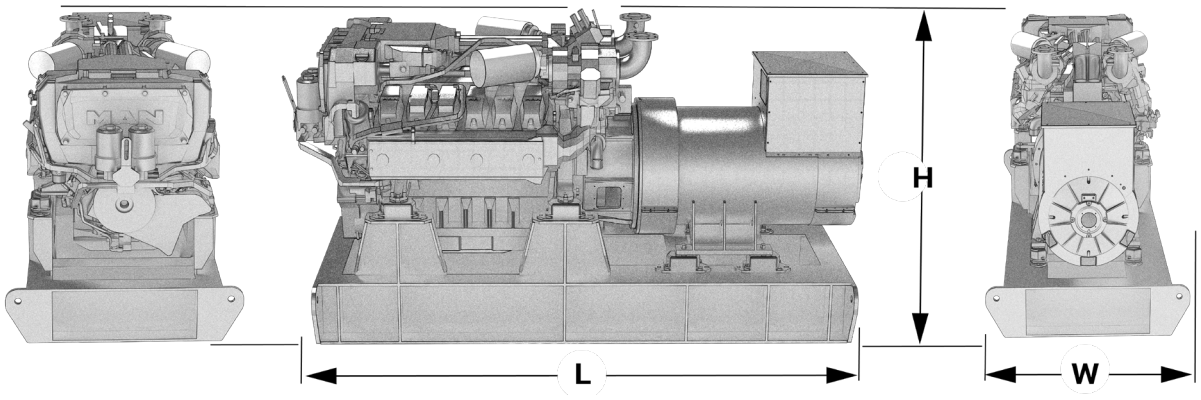
Fuel prefilter

- Fuel pre-filter and/or fuel-water separators are highly recommended in view to avoid consequences of depleted or not complying fuel.
- Depending of requirements and needs, do not hesitate to consult the Nanni Catalog of Accessories to find the best suited prefilter or water-fuel separator.

Raw water system

- A sturdy sea water filter prevents debris from entering the cooling system and to cause damage to your Genset cooling system.
- Do not hesitate to consult the Nanni Catalog of Accessories to find the best suited raw water system to ensure long life trouble free to your equipment.

STANDALONE DIMENSIONS



Q24000	
L, mm	3665
H, mm	1736
W, mm	1405
Dry Weight, kg	5400

GENSET CONNECTIONS

Raw water inlet line Int diam mm [in]:	75 [2,95'']
Min Fuel line Int diam mm [in]:	12 [0,47'']
Exhaust connexion mm [in]:	2x100 [2x3,93'']
Fuel std eletric pump max suction lift m [in]:	2,4 [94,5'']

NOTE 1: Dimensions are shown in mm & [in.].

NOTE 2: This drawing is for reference only. Please do not use as installation planning. Refer to your nearest NANNI local distributor for more detailed information.

AUTHORIZED DEALER

DGBXXC011403

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