

SERVICE		Standby	Prime
Power	kVA	138	124
Power	kW	110	99
Standart Voltage	V	230/400	
RPM	r.p.m	1500	
Frequency	Hz.	50	

**Standby Rating** for a standby engine should be sized for a maximum of 70% average load factor and roughly 200 hours per year. Standby power ratings should never be applied except in true emergency outage situations. With standby rated generators there is no overload capability built into the units.

**Prime Power** is the maximum power accessible at the variable load for an unlimited number of hours per year in a variable load setting. It is not advisable that the variable load exceed 70% average of the prime power rating during any operational period. If the engine is running at 100% prime power, yearly hours should not exceed 500. Overload situations should be avoided however a 10% overload capability is available for a 1 hour period within a 12 hour cycle of operation.

**Countinuous Power** is used in applications where supplying power is at a constant %100 load for an unlimited number of hours each year. Continuous power rated units are most widely used in applications where the power grid is unreachable.

## QUALITY STANDARTS

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000 and IEC 34 standards.

We have ISO 9001-2015, ISO 14001-2015, ISO 45001-2018 and ISO 1002-2006 management system certificates from Kiwa, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

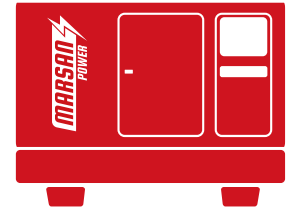
## Engine Specifications

<b>Model</b>		NEF45TM3
<b>Power Standby</b>	<i>kW</i>	118
<b>Power Prime</b>	<i>kw</i>	107
<b>Speed</b>	<i>(rpm)</i>	1500
<b>Cycle</b>		4
<b>Displacement</b>	<i>(lt)</i>	4,5
<b>Number Of Cylinders</b>		4 IN LINE
<b>Bore And Stroke</b>		104 x 132
<b>Compression Ratio</b>		17,5 : 1
<b>Governor Type</b>		MECHANIC
<b>Induction</b>		TURBOCHARGED - AC
<b>Combustion System</b>		DIRECT
<b>Cooling System</b>		WATER
<b>Fuel Comps. 100% Of Prime Power</b>	<i>(lt/h)</i>	28
<b>Fuel Comps. 75% Of Prime Power</b>	<i>(lt/h)</i>	21
<b>Fuel Comps. 50% Of Prime Power</b>	<i>(lt/h)</i>	14
<b>Total Lubrication System Capacity</b>	<i>(lt)</i>	12,8
<b>Total Coolant Capacity</b>	<i>(lt)</i>	18,5

## Alternator Specifications

<b>Frequency</b>	<i>HZ</i>	50
<b>Power</b>	<i>(KVA)</i>	154
<b>Design</b>		4 Pole, Brushless
<b>Connection Type</b>		Star
<b>Voltage</b>	<i>(V)</i>	400
<b>Phase</b>		3
<b>A.V.R.</b>		SX460
<b>Voltage Regulation</b>	<i>(+/-)</i>	± 1%
<b>Insulation System</b>		Class H
<b>Protection</b>		IP23
<b>Rated Power Factor</b>	<i>%</i>	0,8
<b>Weight Comp. Alternator</b>	<i>(KG)</i>	443

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Weatherproof canopy rating is IP 23
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window
- Insulation details: Non-flammable acoustic foam
- Nano tech cleaning system



### CANOPY

<b>Dimensions (W x L x H) mm</b>	mm	1100x3050x1690
<b>WEIGHT (CANOPY)</b>	(Kg)	1997
<b>FUEL TANK CAPACITY</b>	(lt)	275



### OPEN SET

<b>Dimensions (W x L x H) mm</b>	mm	1100x2600x1690
<b>WEIGHT (CANOPY)</b>	(Kg)	1744
<b>FUEL TANK CAPACITY</b>	(lt)	275

### OPEN SET

- Standard industrial type
- Critical type
- Hospital type
- Standard industrial type
- Critical type
- Hospital type

### GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Low oil pressure
- High & low engine speed
- Low radiator water level
- Over current load
- High & low genset voltage
- Start/stop failure

### OPTIONAL EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Modular type sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter

### OPTIONAL GENSET CONTROLLERS

Next generation single gen-set controllers for Stand-by and Prime power applications combining multi-functionality and wide communication with EFI engines.

Datakom SMART 200



Datakom D500



Datakom D500-GSM



DEEPSEA 6120



DEEPSEA 7320



ComAp AMF25



	Datakom SMART 200	Datakom Smart 500MK2	Datakom D500	Datakom D500-GSM	Deepsea 6120	Deepsea 7320	ComAp AMF25
Automatic Mains Monitoring	✓	✓	✓	✓	✓	✓	✓
Manuel Start	✓	✓	✓	✓	✓	✓	✓
Remote Start	OPTIONAL	OPTIONAL	OPTIONAL	✓	✗	OPTIONAL	OPTIONAL
Remote Monitoring With Sim Card	✗	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
1 Aditlonal Opton (Horn, Oil-Fuel Heater Etc.)	✓	✓	✓	✓	✓	✓	✓
Light Warning And Mimic Diagram	✓	✓	✓	✓	✓	✓	✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓
Rs-485 Communication	OPTIONAL	✓	✓	✓	✗	✓	OPTIONAL
Ethernet (Tcp-Ip) Communication	✗	✓	✓	✓	✗	OPTIONAL	OPTIONAL

### GENSET CONTROLLERS FOR SYNCHRONIZATION SYSTEMS

Next generation synchronizing genset controller capable of every communication and functionality.

Datakom D500 MK2



Datakom D700



DEEPSEA 8610



DEEPSEA 8620



DEEPSEA 8660



ComAp IntelliCompact NT SPTM



ComAp IntelliGen BaseBox



ComAp IntelliGen 200

