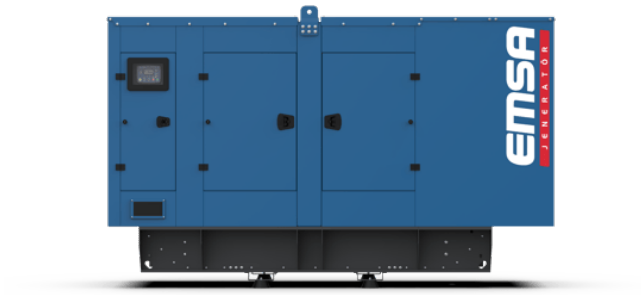
EMPOWER YOUR BUSINESS...

E VL EM 0220/S5

VOLVO Series

Diesel Generator Sets

STANDBY	**kVA**	220
	kW	176
PRIME	**kVA**	200
	kW	160



- Water Cooled
- 50 hz
- StageV
- Modular type sound-proof canopy
- 3 phase
- Diesel
- Warning system for decreasing fuel with electronic fuel level sender
- Remote control system

Emergency Standby Power: Emergency standby power, provided by diesel generators, acts as a backup during power outages. These generators kick in swiftly during emergencies, ensuring continuity for critical operations. Ideal for homes, businesses, and industries, their usage duration should be limited to prevent wear. Strict standards like NFPA 110 ensure their reliability.

Prime Rated Power: Prime rated power generators serve as primary power sources, especially in remote locations. These diesel generators handle varying loads over extended periods, making them perfect for sites without grid access. Commonly mobile, they're crucial for mining, construction, and energy industries, offering consistent, prime-rated power supply.

Continuous Operation Power: Continuous operation generators offer non-stop, stable power output, especially where grid access is inconsistent or expensive. These generators operate at a consistent 100% load, making them indispensable for remote mining, military, or farming sites. Unlike prime-rated generators, they don’t vary in power, ensuring unwavering power delivery.

QUALITY STANDARDS

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, EN12601; EN60204-1; TS ISO 8528-1 ... -13; EN12100-1; EN12100-2; EN61000-6-4; EN61000-6-2; EN61000-4-11; EN61000-4-6; EN61000-4-5; EN61000-4-2; EN55011; EN55016-2-1; EN55016-2-3; EN61000-3-2; EN61000-3-3; EN55014-1; EN61000-6-2; EN61000-4-3; EN61000-4-4; EN61000-4-8; EN61000-4-11; TS EN ISO 3744; TS EN ISO 3746; TS EN 60034-1; TS EN 60034-22; TS EN ISO 3046; BS 5514; NEMA MG 21; IEC 60034, BS 4999/5000 and TS EN 60947-1..4 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 TTS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

Emsa reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

Engine Specifications

- VOLVO series heavy duty diesel engine
- 4 cycle, water cooling system, turbocharged - intercooler induction
- ECU governor system
- 12/24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Flexible fuel pipe
- StageV emission.
- Oil discharge valve and extention pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

MODEL	TAD881GE	
POWER	STANDBY kW	201
	PRIME kW	184
SPEED (rpm)		1500
Cycle		4
DISPLACEMENT (lt)		7.7
NUMBER OF CYLINDERS		6, in line
BORE AND STROKE		110x135
COMPRESSION RATIO		17,2:1

GOVERNOR TYPE	ECU	
Induction	TURBOCHARGED - INTERCOOLER	
COMBUSTION SYSTEM		DIRECT
Cooling System		WATER
FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER	42.2
	75% OF PRIME POWER	31.7
	50% OF PRIME POWER	21.5
TOTAL LUBRICATION SYSTEM CAPACITY (lt)		27
TOTAL COOLANT CAPACITY (lt)		51

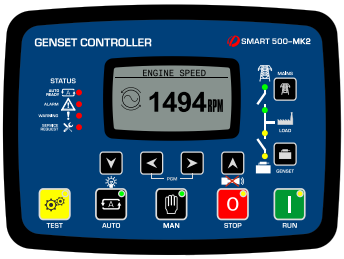
Alternator Specifications

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid

BRAND	EMSA
MODEL	EGK280-170N
FREQUENCY (HZ)	50
POWER (KVA)	220
DESIGN	4 pole, brushless
CONNECTION TYPE	Star
VOLTAGE (V)	400

Phase	3
A.V.R.	SX460
VOLTAGE REGULATION (+/-)	± 1%
INSULATION SYSTEM	Class H
PROTECTION	IP23
RATED POWER FACTOR	0.8
WEIGHT COMP. ALTERNATOR (KG)	600

Genset Controllers



Datakom SMART 500-MK2

The SMART 500-MK2 is a cost effective genset controller ready for BMS integration and internet monitoring

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OPTIONAL GENSET CONTROLLERS OPTIONAL

Datakom SMART 200

Datakom D500

Datakom D500-GSM

DEEPSEA 6120

DEEPSEA 7320

ComAp AMF25

	Datakom SMART 200	Datakom SMART 500-MK2	Datakom D500	Datakom D500 GSM	DEEPSEA 6120	DEEPSEA 7320	ComAp AMF25
AUTOMATIC MAINS MONITORING	✔	✔	✔	✔	✔	✔	✔
MANUEL START	✔	✔	✔	✔	✔	✔	✔
REMOTE START	✔	✔	✔	✔	✔	✔	✔
REMOTE MONITORING WITH SIM CARD	OPTIONAL	OPTIONAL	OPTIONAL	✔	✖	OPTIONAL	OPTIONAL
1 ADITIONAL OPTION (HORN, OIL-FUEL HEATER ETC.)	✖	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
LIGHT WARNING AND MIMIC DIAGRAM	✔	✔	✔	✔	✔	✔	✔
BATTERY CHARGER	✔	✔	✔	✔	✔	✔	✔
RS-485 COMMUNICATION	OPTIONAL	OPTIONAL	✔	✔	✖	✔	OPTIONAL
ETHERNET (TCP-IP) COMMUNICATION	✖	✔	✔	✔	✖	OPTIONAL	OPTIONAL

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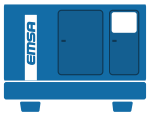
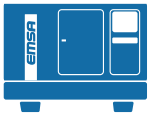


Canopy

- 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-flammeable acoustic foam
- Nano tech cleaning system



Dimensions (W x L x H) mm	xx
Weight (Kg)	
Fuel tank capacity (lt)	Internal type

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Internal type

SILENCER OPTIONS

- Standard industrial type
- Critical type
- Hospital type

CANOPY OPTIONS

- Standard canopy
- Super silent canopy
- Extra super silent canopy (thicker insulation)

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 braker (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 seperator filter
- PMG warning system

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