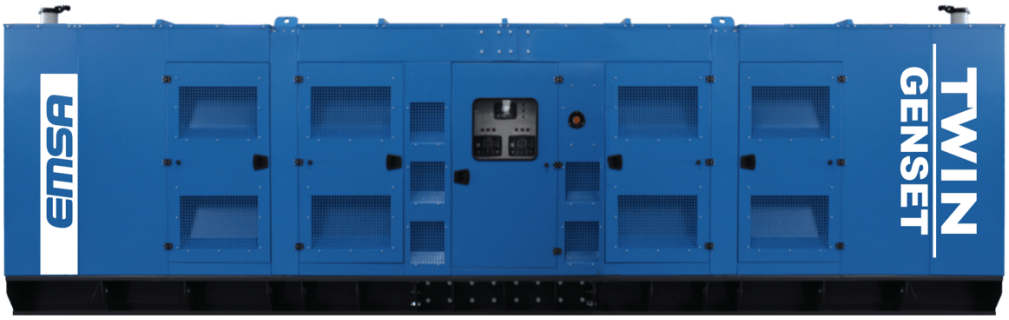
EMPOWER YOUR BUSINESS...

ETW PR EM 0880

PERKINS Series
Twin Diesel Generator Sets

STANDBY	**kVA**	880	**PRIME**	**kVA**	800
	kW	704		**kW**	640



- Water Cooled
- 50 hz
- Easy maintenance
- 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

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooling system, turbocharged - intercooler induction
- Electronic governor system
- 12/24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Flexible fuel pipe
- 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	2206A-E13TAG3	
POWER	STANDBY kW	412.5
	PRIME kW	368.4
SPEED (rpm)		1500
Cycle		4
DISPLACEMENT (lt)		12.5
NUMBER OF CYLINDERS		6, in line
BORE AND STROKE		130 x 157
COMPRESSION RATIO		16,3 : 1

GOVERNOR TYPE	Electronic	
Induction	TURBOCHARGED - INTERCOOLER	
COMBUSTION SYSTEM		DIRECT
Cooling System		WATER
FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER	81
	75% OF PRIME POWER	62
	50% OF PRIME POWER	42
TOTAL LUBRICATION SYSTEM CAPACITY (lt)		40
TOTAL COOLANT CAPACITY (lt)		51.4

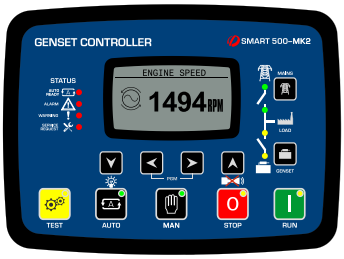
Alternator Specifications

- 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	EGK315-320N
FREQUENCY (HZ)	50
POWER (KVA)	458
DESIGN	4 pole, brushless
CONNECTION TYPE	Star
VOLTAGE (V)	400

Phase	3
A.V.R.	AS440
VOLTAGE REGULATION (+/-)	± 1%
INSULATION SYSTEM	Class H
PROTECTION	IP23
RATED POWER FACTOR	0.8
WEIGHT COMP. ALTERNATOR (KG)	1198

Genset Controllers



Datakom SMART 500-MK2

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

GENSET CONTROLLERS FOR SYNCHRONIZATION SYSTEMS OPTIONAL

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

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DEEPSEA 8610

DEEPSEA 8620

DEEPSEA 8660

ComAp InteliGen BaseBox

ComAp InteliGen 200

	Datakom Smart 500-mk2	DEEPSEA 8610	DEEPSEA 8620	DEEPSEA 8660	ComAp InteliGen BaseBox	ComAp InteliGen 200
Multi genset synch & load share	✔	✔	✖	✖	✔	✔
Mains synchronization	✔	✖	✖	✔	✖	✖
Single genset parallel with mains	✔	✖	✔	✔	✔	✔
ATS unit	✔	✔	✔	✔	✔	✔
Remote start controller	✔	✔	✖	✖	✔	✔
Manual start controller	✔	✔	✖	✖	✔	✔
Engine controller	✔	✔	✔	✖	✔	✔
Data logging	✔	✔	✔	✔	✔	✔
Remote display panel	✔	✔	✔	✔	✔	✔
Ethernet (10/100Mb)	OPTIONAL	✔	✔	✔	✔	OPTIONAL
4-band GPRS modem	OPTIONAL	OPTIONAL	✖	OPTIONAL	OPTIONAL	OPTIONAL
USB Device	✔	✔	✔	✔	✔	✔
RS-485 (2400-115200baud)	OPTIONAL	✔	✔	✔	✔	✔
RS-232 (2400-115200baud)	✔	✔	✔	✔	✔	OPTIONAL
MicroSD card slot	✖	✖	✖	✖	✖	✖
J1939-CANBUS	✔	✔	✔	OPTIONAL	✔	✔
Geo-locating through GSM	OPTIONAL	✖	✖	OPTIONAL	OPTIONAL	OPTIONAL
Embedded web server	✔	✔	✔	✔	✔	✔
Web monitoring& programming	✔	✔	✔	✔	✔	✔
Internet Central Monitoring	✔	✔	✔	✔	✔	✔
SMS message sending	✔	✔	✖	✔	✔	✔
E-mail sending	✔	✖	✖	✖	✔	✔
Free PC software	✔	✔	✔	✔	✔	✔
Modbus RTU	OPTIONAL	✔	✔	✔	✔	✔
SNMP	OPTIONAL	✔	✖	✖	✔	✔
Configurable digital inputs	8	12	12	11	12	8
Configurable digital outputs	8	8	8	8	12	8
Configurable analog inputs	4	4	4	0	3	4

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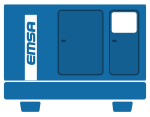
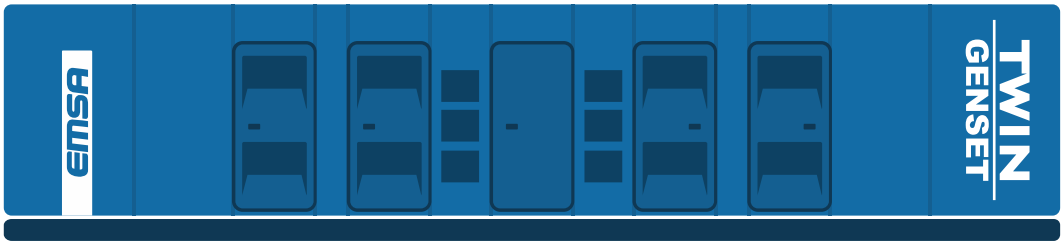


Canopy

- 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	Weight (Kg)	Fuel tank capacity (lt)
xx		Internal type

OPTIONAL

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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