

### SPARK PR EM 0400

#### PERKINS Series Diesel Generator Sets

STAND BY	kVA	400
	kW	320
PRIME	kVA	350
	kW	280



Water Cooled



50 hz



3 phase



Diesel



Easy maintenance



Modular type sound-proof canopy



Warning system for decreasing fuel with electronic fuel level sender



Remote control system

**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.

**Continuous 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 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.



## 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 extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

MODEL	2206A-E13TAG2	
POWER	STAND BY KW	349
	PRIME KW	305
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	71
	75% OF PRIME POWER	54
	50% OF PRIME POWER	37
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 21-23 protection class
- Self exciter

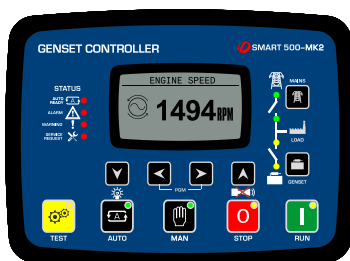
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid

BRAND	EMSA	
MODEL	EGK315-290N	
FREQUENCY (HZ)	50	
POWER (KVA)	440	
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)	1350	



## Genset Controllers



### Datakom SMART 500-MK2

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

## 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
<b>AUTOMATIC MAINS MONITORING</b>	✓	✓	✓	✓	✓	✓	✓
<b>MANUAL START</b>	✓	✓	✓	✓	✓	✓	✓
<b>REMOTE START</b>	✓	✓	✓	✓	✓	✓	✓
<b>REMOTE MONITORING WITH SIM CARD</b>	OPTIONAL	OPTIONAL	OPTIONAL	✓	✗	OPTIONAL	OPTIONAL
<b>1 ADDITIONAL OPTION (HORN, OIL-FUEL HEATER ETC.)</b>	✗	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
<b>LIGHT WARNING AND MIMIC DIAGRAM</b>	✓	✓	✓	✓	✓	✓	✓
<b>BATTERY CHARGER</b>	✓	✓	✓	✓	✓	✓	✓
<b>RS-485 COMMUNICATION</b>	OPTIONAL	OPTIONAL	✓	✓	✗	✓	OPTIONAL
<b>ETHERNET (TCP-IP) COMMUNICATION</b>	✗	✓	✓	✓	✗	OPTIONAL	OPTIONAL

## GENSET CONTROLLERS FOR SYNCHRONIZATION SYSTEMS OPTIONAL

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

DEEPSEA 8610



DEEPSEA 8620



DEEPSEA 8660



ComAp IntelliGen BaseBox



ComAp IntelliGen 200






## 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-flammable acoustic foam
- Nano tech cleaning system
- Container optional



	Dimensions (W x L x H) mm	1600x4050x2615 *		Dimensions (W x L x H) mm	1500x3600x2116
	Weight (Kg)	3986		Weight (Kg)	3332
	Fuel tank capacity (lt)	819 Internal type		Fuel tank capacity (lt)	819 Internal type



External 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 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
- PMG warning system