

Industrial Generator Set – KD2000 Fuel Optimized for Stationary Emergency Applications



Ratings Range

400V-50 Hz

Standby: 1600 kW

> kVA 2000

kW Prime: 1455

> kVA 1818



Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- Approved for use with certified renewable Hydrotreated Vegetable Oil (HVO)/Renewable Diesel (RD) fuels compliant with EN15940/ASTM D975.
- The generator set and its components are prototypetested, factory-built, and production-tested.
- The generator set accepts rated load in one step.
- A standard three-year or 1000-hour limited warranty for standby applications in Europe, Midde East and Africa..
- A standard two-year or 8700-hour limited warranty for prime power applications.
- A worldwide product support
- Other features:
 - o Kohler designed controllers for one-source system integration and remote communication. See Controllers on page 4.

General Specifications

Manufacturer	Kohler
Engine: model	KD62V12A
Alternator Choices	KH04404T
	KH04406T
	KH05460T
	KH07280T
	KH05460T
	KH06280T
Performance Class	G3, Per ISO 8528-5
One Step Load Acceptance	100%
Voltage	400V, 10.5kV, 11kV
Controller	M80-D, APM403, APM802
Fuel Consumption, L/h	407
100% at Standby *	
Fuel Consumption, L/h	369
100% at Prime Power *	
Emission Level Compliance	-
Open Unit Noise Level @ 7 m dB(A)	_
at Rated Load	
Data Center / Mission Critical Rating	Same as the Standby Rating

below Unit mounted Radiator Type of cooling

Remote Radiator Factory installed enclosures CPU40

* Volumetric Fuel consumption is up to 4% higher when using HVO/RD than Diesel Fuel.

Conscious Care™ Qualified

Reduce operating costs, fuel consumption, and greenhouse gas emissions with Conscious Care™ maintenance program.

Generator Set Ratings

				Without radiator			Standa	ard Unit m Radiator	ounted
Alternator	Voltage	Ph	Hz	kVA	kW	Α	kVA	kW	Α
KH04404T	400V	3	50	2046	1637	2363	2000	1600	2309
KH04406T	400V	3	50	2079	1663	2401	2000	1600	2309
KH05460T	10500V	3	50	2105	1684	93	2000	1600	88
KH07280T	10500V	3	50	2110	1688	93	2000	1600	88
KH05460T	11000V	3	50	2108	1686	89	2000	1600	84
KH06280T	11000V	3	50	2110	1688	89	2000	1600	84

RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory.

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit;.

The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. KD2000-F-02-1.docx P. 1/5



Industrial Generator Set – KD2000 Fuel Optimized for Stationary Emergency Applications

Fuel Consumption

Engine Specifications	
Manufacturer	Kohler
Engine model	KD62V12A
Engine type	4-Cycle, Turbocharged, Intercooled
Cylinder arrangement	16-V
Displacement, L	62
Bore and stroke, mm	175 x 215
Compression ratio	16.0:1
Rated rpm	1500
Max. power at rated rpm, kWm	1760
Governor: type, make/model	KODEC Electronic Control
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.25%
Lubricating System	
Туре	Full Pressure
Oil filter: quantity, type §	6, Cartridge
Oil cooler	Water-Cooled
§ Kohler recommends the use of Kohler	Genuine oil and filters.
Fuel System	
Max. fuel flow, L/h	589
Maximum diesel fuel lift, m	3.5
Fuel filter: quantity, type	Primary Engine Filter
	2, Fuel/Water Separator
Recommended fuel	#2 Diesel ULSD/HVO/RD

g/kWh	l/h**
196	406
196	304
205	212
240	124
ith diesel fuel ha	aving an LHV
40)
Kohler Genu	ine coolant
_	
18	0
59	5
	_
169	95
	_
80)
47	0
46	0
200	07
82	2
0.2	50
Dr	у
See dra	awing
Without i	radiator
25	0
20	~
	196 196 205 240 ith diesel fuel hat Kohler Genu - - 18 59 169 47 46 200 82 0.29

RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-3528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory.

Reference Conditions: 25°C Air Inlet Temperature, 40°C Puel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit; Exhaust Back pressure set to maximum allowable limit;

The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. KD2000-F-02-1.docx P. 2/5



Industrial Generator Set – KD2000 Fuel Optimized for Stationary Emergency Applications

Heat rejected to exhaust, kW Exhaust temperature at rated kW at 25°C ambient, dry exhaust, °C Exhaust flow at rated kW, l/s. Maximum allowable backpressure, kPa Exh. outlet size at eng. hookup, mm Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 1120 120 131 132 140 Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Redun	Exhauet System	
Exhaust temperature at rated kW at 25°C ambient, dry exhaust, °C Exhaust flow at rated kW, l/s. 5392 Maximum allowable backpressure, kPa Exh. outlet size at eng. hookup, mm See ADV drawing Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) 24 Ampere rating 1440 Starter motor qty. at starter motor power rating, rated voltage (DC) 2 (2 (9 kW, 24; Redundant (optional); 2 (2 (15 kW, 24)) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) 12 Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61	Exhaust System	1120
25°C ambient, dry exhaust, °C Exhaust flow at rated kW, l/s. Maximum allowable backpressure, kPa Exh. outlet size at eng. hookup, mm See ADV drawing Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 80 Alternator, kW 80 Alternator, kW 81 86 867 8.67	•	1120
Exhaust flow at rated kW, l/s. Exhaust flow at rated kW, l/s. Maximum allowable backpressure, kPa Exh. outlet size at eng. hookup, mm See ADV drawing Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Starter motor qtv. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 80 Alternator, kW 80 Alternator, kW 86 See ADV drawing 86 8.67 8.7	•	375
Maximum allowable backpressure, kPa Exh. outlet size at eng. hookup, mm See ADV drawing Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, I/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 80 Alternator, kW 80 Alternator, sixed end. Apok See ADV drawing See ADV drawing 8ee ADV drawing		
Exh. outlet size at eng. hookup, mm See ADV drawing Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Stantard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW See ADV drawing Negative Negative Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24	Exhaust flow at rated kW, I/s.	5392
Exh. outlet size at eng. hookup, mm See ADV drawing Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) 24 Ampere rating 140 Starter motor qty. at starter motor power rating, rated voltage (DC) Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) 4, 1110, AGM Quantity, CCA rating each, type (with redundant starters) 8, 1110, AGM Battery voltage (DC) 12 Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61	•	8.67
Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Redundant (optional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundard: 2 @ potentine	··· ··	0.07
Electrical System Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW Bestive Negative Negative Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Redundant (optio	· · · · · · · · · · · · · · · · · · ·	Soc ADV drowing
Battery charging alternator: Ground (negative/positive) Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Standard: 2 @		See ADV drawing
Ground (negative/positive) Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW Standard: 2 @ 9 kW, 24; Redundant: 2 @ 9 kW, 24; Redundant: 2 @ 15 kW, 24 Redundant (optional); 2 @ 15 kW, 24 Redundant (optional); 2 @ 15 kW, 24 Redundant (o	Electrical System	
Volts (DC) Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundant (aptional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundant (potional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Standard: 2 @ 9 kW, 24; Redundard starters)		
Ampere rating Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 8 4, 1110, AGM 8, 1110, AGM 8 5, 1110, AGM 11.8 2400 5 4400 80 80 Alternator, kW 80 61	()	ū
Starter motor qty. at starter motor power rating, rated voltage (DC) Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24 Redundant (opt	` '	= :
power rating, rated voltage (DC) Redundant (optional); 2 @ 15 kW, 24 Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW Redundant (optional); 2 @ 15 kW, 24 8, 1110, AGM 9, 1110, AGM 12 11.8 11.8 2400 80 80 Alternator, kW 61		
Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW 2 @ 15 kW, 24 3 5 kW, 24 4, 1110, AGM 4, 1110, AGM 5, 1110, AGM 12 12 14 15 11.8 11.	. ,	
Battery, recommended cold cranking amps (CCA): Quantity, CCA rating each, type (with standard starters) 4, 1110, AGM Quantity, CCA rating each, type (with redundant starters) 8, 1110, AGM Battery voltage (DC) 12 Air Requirements Radiator-cooled cooling air, 35.2 Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61	power rating, rated voltage (DC)	
amps (CCA): Quantity, CCA rating each, type (with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Heat rejected to ambient air: Engine, kW Alternator, kW 4, 1110, AGM 4, 1110, AGM 5, 1110, AGM 12 12 12 12 4, 1110, AGM 12 12 12 12 4, 1110, AGM 12 4, 1110, AGM 12 12 12 12 4, 1110, AGM 12 12 12 4, 1110, AGM 12 12 12 12 4, 1110, AGM 12 12 12 12 4, 1110, AGM 11 12 12 12 12 12 12 12 12 12	Battery, recommended cold cranking	
(with standard starters) Quantity, CCA rating each, type (with redundant starters) Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 4, 1110, AGM 8,		
Quantity, CCA rating each, type (with redundant starters) 8, 1110, AGM Battery voltage (DC) 12 Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW Alternator, kW 61	3, 3, 1	
(with redundant starters) 8, 1110, AGM Battery voltage (DC) 12 Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW Alternator, kW 61	,	4, 1110, AGM
Battery voltage (DC) Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 12 35.2 35.2 2400 5 480 Alternator, base and a set and		0.4440.4004
Air Requirements Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 35.2 2400 5 80 Alternator, kW 61	•	
Radiator-cooled cooling air, m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 35.2 11.8 2400 5 80 Alternator, kW 61		12
m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61	Air Requirements	
m³/s.‡ Cooling air required for generator set when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. Max. air combustion restriction, kPa Heat rejected to ambient air: Engine, kW Alternator, kW 61		35.2
when equipped with remote radiator, based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61	· · · !	
based on 14°C rise, m³/s.‡ Combustion air, l/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61	ŭ , ŭ	11 8
Combustion air, I/s. 2400 Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61		11.0
Max. air combustion restriction, kPa 5 Heat rejected to ambient air: Engine, kW 80 Alternator, kW 61	· ·	2400
Engine, kW 80 Alternator, kW 61	•	5
Alternator, kW 61	Heat rejected to ambient air:	
,	Engine, kW	80
4. Air danate. 4.00 log/ss3	Alternator, kW	61
‡ Air density = 1.20 kg/m°	‡ Air density = 1.20 kg/m ³	

Alternator Specifications	
Type	4-Pole, Rotating-Field
Exciter type	Brushless, PMG
Voltage regulator	Yes
Insulation system:	Class H, Synthetic, Non-hygroscopic
Ingress Protection rating	IP23
Bearing: quantity, type	1, Sealed
Number of wire	12
Coupling type	Direct
Overspeed (rpm)	2250
Voltage regulation, no-load to full-load	±0.5%
Unbalanced load capability	8%

Alternator Standard Features

- The AVR voltage regulator provides superior short-circuit capability.
- All models are brushless, rotating-field alternators.
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Brushless alternator with brushless pilot exciter for excellent load response.

NOTE:

See Alternator Data Sheets for alternator application data and ratings, efficiency curves, voltage dip with motor starting curves, and short circuit decrement curves.

RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for RATINGS. All times phase units are traced at 0.5 power factor. Startings relatings. The startings applicable to varying loads for the dutation of a power outage. There is no overload capacity is this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory.

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit;.

The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. KD2000-F-02-1.docx P. 3/5



Industrial Generator Set - KD2000 Fuel Optimized for Stationary Emergency Applications

Controllers



APM802 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- 12-inch graphic display with touch screen and menu control provide easy local data access
- Measurements are selectable in metric or English units
- User language selectable
- Two USB ports allow connection of a flash drive, mouse, or keypad
- Electrical data, mechanical data, and system settings can be saved to a flash drive
- Ethernet port allows connection to a PC type computer or Ethernet switch
- The controller supports Modbus® RTU and TCP protocols Refer to G6-152 for additional controller features and accessories. Modbus® is a registered trademark of Schneider Electric.



APM403 Controller

Provides a versatile control unit for single or parallel application.

- graphic display provides easy local data view.
- User language selectable
- Event log and management of the last 300 events; data and system settings can be saved to a flash drive.
- On-board communication and control ports on board (USB, USB host, CAN, RS485)
- The controller supports Modbus® RTU protocols (TCP protocol as option)



M80-D

Provides a basic terminal block for connecting a remote-control unit. Intuitive LCD screen for basic generator parameters (coolant and fuel temperatures, engine speed,...)

Controls and records the main engine functions for quick diagnosis (starting, speed adjustment)

Codes and Standards

- Engine-generator set is designed and manufactured in facilities certified to ISO 9001 and ISO14001.
- Generator set meets NEMA MG1, BS5000, ISO, DIN EN, and IEC standards..
- Engine generator set is tested to ISO 8528-5 for transient response.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- Machinery Directive 2006/42/EC of May 17th 2006
- EMC Directive 2014/30/UE
- Safety objectives set out in the Low Voltage Directive 2014/35/UE
- EN ISO 8528-13, EN 60034-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 55011, EN 1679-1 et EN 60204-1

Warranty Information

- A standard three-year from the commissioning date, 1000 running hours warranty for standby applications in Europe, Middle East and Africa.
- A standard two-year from the commissioning date or 8700-hour limited warranty for prime power applications.
- Five-year basic, five-year comprehensive, and ten-year extended limited warranties are also available

Available Warranties for Standby Applications

- 5-Year Basic Limited Warranty
- □ 5-Year Comprehensive Limited Warranty
- ☐ 10-Year Major Components Limited Warranty

Standard Features

- Industrial water cooled internal combustion Engine
- Single electric starter
- Charging alternator 24Vdc
- Single bearing alternator IP23, Torise / Insulation class H/H
- Welded steel skid
- M80-D controller
- Closed Crankcase Ventilation (CCV) Filters
- Standard air filter
- Local Emergency Stop Switch
- Oil Drain and Coolant Drain Extension
- Fuel/Water Separator
- Generator Heater
- Compensators and flanges for exhaust outlets
- Spring Isolation Under the Skid
- Packaging under plastic film
- Operation and Installation Literature
- Delivered with initial oil fill

RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for RATINGS. All time-phase units are faced at 0.5 power factor. Standay Ratings. The standay failing is applicable to varying loads for the dutation of a power factor. Standay Ratings. The standay failing is applicable to varying loads for the dutation of a power factor. It is a constant to the failing is applicable to varying loads for the dutation of a power factor. It is a constant the failing is applicable to varying loads for the dutation of a power factor. It is a constant to the dutation of a power factor. It is a constant to the dutation of a power factor. It is a constant to a power factor. It is a constant to the dutation of a power factor. It is a constant to a

The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. KD2000-F-02-1.docx P. 4/5



Industrial Generator Set - KD2000 **Fuel Optimized for Stationary Emergency Applications**

Dimensions and Weights

Compact version without cooling

Overall Size, max., L x W x H, 4573 x 2242 x 2721

mm:

Weight, max. wet, kg: 14173 Fuel tank capacity, L

Compact version with unit mounted radiator

Unit-mounted radiator for easy installation, high functional

reliability, and operation in harsh conditions

Overall Size, max., L x W x H,

6214 x 2798 x 2888

17013 Weight, radiator model, max. wet,

kg:

Fuel tank capacity, L 0



CPU40 soundproofed version

An integrated solution in a 40-foot high-cube container suitable for harsh environments, for a silent, ready-to-use and easy-to-maintain installation.

Overall Size, max., L x W x H,

12192 x 2438 x 5167 mm:

86

72

Weight, max. wet, kg: Fuel tank capacity, L 500 Sound Power level LwA in dB(A) 109

50Hz, 75% PRP

Sound Pressure level LpA @1m in

dB(A) 50Hz, 75% PRP

Sound Pressure level LpA @7m in 78

dB(A) 50Hz, 75% PRP



CPU40 super soundproofed version

An integrated solution in a 40-foot high-cube container suitable for harsh environments, for an even more silent, ready-to-use and easy-to-maintain installation.

Overall Size, max., L x W x H, 12192 x 2438 x 5167

Weight, max. wet, kg: Fuel tank capacity, L 500 Sound Power level LwA in dB(A) 103 50Hz, 75% PRP

Sound Pressure level LpA @1m in 80

dB(A) 50Hz, 75% PRP

Sound Pressure level LpA @7m in

dB(A) 50Hz, 75% PRP





RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory.

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit;.

The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever KD2000-F-02-1.docx P. 5/5