

on LINE on  
on DEMAND on CALL

## Industrial Power Systems Catalog

5.5 kVA – 630 kVA, 50 HZ

10 kW – 550 kW, 60 HZ

**KOHLER**<sup>®</sup>

# POWER PRODUCTS FROM 5.5 kVA TO 40 kVA/50 Hz 10 kW TO 40 kW/60 Hz



KM11.5 generator, shown with DEC1000 control



KM30U generator, shown with DEC1000 control

## THREE-PHASE GENERATOR SETS

Specifications, 50 Hz, 230-400 V				Specifications, 60 Hz, 277-480 V				General Specifications								
Generator Set Model(1)	kVA		Fuel Consumption 3/4 L/h	Generator Set Model(2)	kW		Fuel Consumption 3/4 L/h	Engine				Alternator		Unhoused Version (5)		
	Prime Power(3)	Standby Power(4)			Prime Power(3)	Standby Power(4)		Engine Type	Cyl.	Bore, mm	Stroke, mm	Cyl. L	Type	Dimensions, L x W x H, m	Weight, kg(6)	Tank Capacity, L
KM15H(8)	—	15	4.2	—	—	—	—	L3E SDH	3L	76	70	0.95	FT2MBS	1.41 x 0.72 x 1.03	294	50
KM20H(8)	—	20	5.5	—	—	—	—	S3L2 SDH	3L	78	92	1.3	ECO3-2L	1.41 x 0.72 x 1.05	386	50
KM27H(8)	—	27	6.3	—	—	—	—	S4L2 SDH	4L	78	92	1.8	ECO28-2L	1.70 x 0.90 x 1.12	530	100
KM7.5	6.8	7.5	1.7	—	—	—	—	L3 E SD	3L	76	70	1	ECO3-2S	1.41 x 0.72 x 1.03	307	50
KM11.5	10.5	11.5	2.5	KM11U	10	11	3.2	S3L2 SD	3L	78	92	1.318	ECO3-1L	1.41 x 0.72 x 1.05	387	50
KM16	14.5	16	3.4	KM16U	15	16	4.2	S4L2 SD	4L	78	92	1.758	ECO3-2L	1.41 x 0.72 x 1.05	406	50
KM22	20	22	4.7	KM20U	18	20	5.6	S4 Q2 SD	4L	88	103	2.5	ECO28-1L	1.70 x 0.90 x 1.12	560	100
KM33	30	33	6	KM30U	27	30	8.2	S4S SD	4L	94	120	3.3	ECO28VL	1.70 x 0.90 x 1.14	660	100
KM44	40	44	7.3	KM40U	36	40	8.7	S4S DT	4L	94	120	3.33	ECO32-3S	1.70 x 0.90 x 1.16	680	100

## SINGLE-PHASE GENERATOR SETS

Specifications, 50 Hz, 230 V				Specifications, 60 Hz, 240 V				General Specifications								
Generator Set Model(7)	kVA		Fuel Consumption 3/4 L/h	Generator Set Model(7)	kW		Fuel Consumption 3/4 L/h	Engine				Alternator		Unhoused Version (5)		
	Prime Power(3)	Standby Power(4)			Prime Power(3)	Standby Power(4)		Engine Type	Cyl.	Bore, mm	Stroke, mm	Cyl. L	Type	Dimensions, L x W x H, m	Weight, kg(6)	Tank Capacity, L
KM11.5HM(8)	—	11.5	4.2	—	—	—	—	L3E SDH	3L	76	70	0.95	ECO3-2L	1.41 x 0.72 x 1.03	318	50
KM5.5M	5	5.5	1.7	—	—	—	—	L3E SD	3L	76	70	0.95	ECO3-2S	1.41 x 0.72 x 1.03	307	50
KM9M	7.8	8.6	2.5	KM11UM	9.1	10	3.2	S3L3 SD	3L	78	92	1.3	ECO3-2L	1.41 x 0.72 x 1.05	396	50
KM12M	11	12.1	3.4	KM16UM	14	15	4.2	S4L2 SD	4L	78	92	1.75	ECO28-1L	1.41 x 0.72 x 1.05	452	50
KM17M	15.6	17.2	4.7	KM20UM	18	20	5.6	S4Q2 SD	4L	88	103	2.5	ECO28VL	1.70 x 0.90 x 1.12	580	100
—	—	—	—	KM30UM	27	30	8.2	S4S SD	4L	94	120	3.33	ECO28VL	1.70 x 0.90 x 1.14	660	100
—	—	—	—	KM40UM	36	40	8.7	S4S DT	4L	94	120	3.33	LSA432M45	2.16 x 0.97 x 1.4	922	100

(1) Also available in the following voltages: 240/415 V, 220/380 V, 127/220 V, 115/220 V.

(2) Also available in the following voltages: 254/440 V, 127/220 V, 120/208 V.

(3) Prime power in direct current for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528, a 10% overload capacity is available for a period of 1 hour every 12-hour period of operation, in accordance with ISO3046-1.

(4) Emergency standby power available for supplying emergency power in variable load applications in accordance with ISO8528-1, no overload available for this service.

(5) The dimensions and weights apply to an unhoused generator set without options.

(6) Dry weight, without fuel.

(7) Also available in the following voltages: 220-240 V.

(8) 3000 rpm engine.

POWER PRODUCTS FROM

**22 kVA TO 440 kVA/50 Hz**

**18 kW TO 400 kW/60 Hz**



KD100U generator, shown with DEC4000 or 1000 control



KD200 generator, shown with DEC4000 or 1000 control

**THREE-PHASE GENERATOR SETS**

Specifications, 50 Hz, 230-400 V				Specifications, 60 Hz, 277-480 V				General Specifications								
Generator Set Model(1)	kVA		Fuel Consumption 3/4 L/h	Generator Set Model(2)	kW		Fuel Consumption 3/4 L/h	Engine				Alternator		Unhoused Version (5)		
	Prime Power(3)	Standby Power(4)			Prime Power(3)	Standby Power(4)		Engine Type	Cyl.	Bore, mm	Stroke, mm	Cyl, L	Type	Dimensions, L x W x H, m	Weight, kg(6)	Tank Capacity, L
<b>KD22</b>	20	22	5.2	<b>KD20U</b>	16	18	6.3	3029DF120	3L	106	110	2.9	ECO28-1L/4	1.70 x 0.89 x 1.22	720	100
<b>KD33</b>	30	33	5.2	<b>KD30U</b>	25	28	6.3	3029DF120	3L	106	110	2.9	ECO28VL	1.70 x 0.89 x 1.22	740	100
<b>KD44</b>	40	44	8.4	<b>KD40U</b>	36	40	10.1	3029TF120	3L	106	110	2.9	ECO32-3S	1.70 x 0.89 x 1.22	820	100
<b>KD66</b>	60	66	12	<b>KD60U</b>	55	60	14.5	4045TF120	4L	106	127	4.5	432M45	1.87 x 0.99 x 1.36	1000	180
<b>KD77</b>	70	77	12	<b>KD70U</b>	64	70	14.5	4045TF120	4L	106	127	4.5	432L65	1.87 x 0.99 x 1.36	1110	180
<b>KD88</b>	80	88	14	<b>KD80U</b>	73	80	16	4045TF220	4L	106	127	4.5	432L8	1.87 x 0.99 x 1.36	1110	180
<b>KD110</b>	100	110	16.5	<b>KD100U</b>	91	100	19	4045HF120	4L	106	127	4.5	442VS45	1.95 x 1.08 x 1.33	1240	190
<b>KD130</b>	120	132	18.5	<b>KD120U</b>	106	117	24	6068TF220	6L	106	127	6.7	442S7	2.37 x 1.11 x 1.48	1570	340
<b>KD165</b>	150	165	25	<b>KD150U</b>	137	150	29	6068HF120-153	6L	106	127	6.7	442M95	2.37 x 1.11 x 1.48	1640	340
<b>KD200</b>	182	200	31.3	<b>KD175U</b>	159	175	36.1	6068HF120-183	6L	106	127	6.7	462M3	2.37 x 1.11 x 1.48	1730	340
<b>KD220</b>	200	220	32.6	<b>KD200U</b>	182	200	36.9	6068HF475	6L	106	127	6.7	462M5	2.37 x 1.11 x 1.48	1790	340
<b>KD275</b>	250	275	40.1	—	—	—	—	6081HF001	6L	116	129	8.1	462L6	2.90 x 1.30 x 1.70	2170	390
<b>KD300</b>	275	303	42.6	<b>KD250U</b>	227	250	46.1	6081HF001	6L	116	129	8.1	462L9	2.90 x 1.30 x 1.68	2235	390
—	—	—	—	<b>KD275U</b>	250	275	47.4	6081HF070-318	6L	116	129	8.1	462L9	2.90 x 1.30 x 1.70	2280	390
<b>KD400</b>	365	402	59.4	<b>KD350U</b>	318	350	76	6125HF070	6L	127	165	12.5	472VS2	3.16 x 1.34 x 1.79	3090	470
<b>KD440</b>	400	440	59.4	<b>KD400U</b>	363	400	76	6125HF070	6L	127	165	12.5	472VS3	3.16 x 1.34 x 1.79	3120	470

**SINGLE-PHASE GENERATOR SETS**

Specifications, 50 Hz, 230 V				Specifications, 60 Hz, 240 V				General Specifications								
Generator Set Model(7)	kVA		Fuel Consumption 3/4 L/h	Generator Set Model(7)	kW		Fuel Consumption 3/4 L/h	Engine				Alternator		Unhoused Version (5)		
	Prime Power(3)	Standby Power(4)			Prime Power(3)	Standby Power(4)		Engine Type	Cyl.	Bore, mm	Stroke, mm	Cyl, L	Type	Dimensions, L x W x H, m	Weight, kg(6)	Tank Capacity, L
<b>KD24M</b>	22	24	5.2	<b>KD30UM</b>	25	28	6.3	3029DF120	3L	106	110	2.9	ECO32-3S	1.70 x 0.89 x 1.22	800	100
—	—	—	—	<b>KD40UM</b>	36	40	10.1	3029TF120	3L	106	110	2.9	432M45	1.70 x 0.89 x 1.22	860	100
—	—	—	—	<b>KD70UM</b>	61	67	14.5	4045TF120	4L	106	127	4.5	442VS45	1.87 x 0.99 x 1.36	1150	190

(1) Also available in the following voltages: 240/415 V, 220/380 V, 127/220 V, 115/220 V.

(2) Also available in the following voltages: 254/440 V, 127/220 V, 120/208 V.

(3) Prime power in direct current for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528, a 10% overload capacity is available for a period of 1 hour every 12-hour period of operation, in accordance with ISO3046-1.

(4) Emergency standby power available for supplying emergency power in variable load applications in accordance with ISO8528-1, no overload available for this service.

(5) The dimensions and weights apply to an unhoused generator set without options.

(6) Dry weight, without fuel.

(7) Also available in the following voltages: 220-240 V.

POWER PRODUCTS FROM  
**220 kVA TO 630 kVA/50 Hz**  
**200 kW TO 550 kW/60 Hz**



KV400U generator, shown with DEC4000 control



KV630 generator, shown with DEC4000 control

**THREE-PHASE GENERATOR SETS**

Specifications, 50 Hz, 230-400 V				Specifications, 60 Hz, 277-480 V				General Specifications								
Generator Set Model(1)	kVA		Fuel Consumption 3/4 L/h	Generator Set Model(2)	kW		Fuel Consumption 3/4 L/h	Engine				Alternator		Unhoused Version(5)		
	Prime Power(3)	Standby Power(4)			Prime Power(3)	Standby Power(4)		Engine Type	Cyl.	Bore, mm	Stroke, mm	Cyl. L	Type	Dimensions, L x W x H, m	Weight, kg(6)	Tank Capacity, L
<b>KV220</b>	200	220	32.5	<b>KV200U</b>	182	200	36.5	TAD733GE	6L	108	130	7.2	462M5	2.37 x 1.11 x 1.54	1850	340
<b>KV275</b>	250	275	42.6	—	—	—	—	TAD734GE	6L	108	130	7.15	462L6	2.9 x 1.3 x 1.7	N/A	390
—	—	—	—	<b>KV250U</b>	227	250	45.7	TAD734GE	6L	108	130	7.15	462L9	2.9 x 1.3 x 1.7	N/A	390
<b>KV350</b>	300	330	50.6	<b>KV300U</b>	273	300	52.8	TAD941GE	6L	120	138	9.4	462VL12	3.16 x 1.34 x 1.76	2850	470
<b>KV375</b>	341	375	50.6	—	—	—	—	TAD941GE	6L	120	138	9.4	472VS2	3.16 x 1.34 x 1.76	2780	470
—	—	—	—	<b>KV350U</b>	319	350	58.5	TAD1241GE	6L	131	150	12.1	472VS2	3.16 x 1.34 x 1.80	2900	470
<b>KV410</b>	375	413	55	—	—	—	—	TAD1241GE	6L	131	150	12.1	472VS3	3.16 x 1.34 x 1.81	3190	470
<b>KV440</b>	400	440	59.5	<b>KV400U</b>	364	400	67.8	TAD1242GE	6L	131	150	12.1	472VS3	3.16 x 1.34 x 1.81	3238	470
<b>KV500</b>	450	500	69.2	<b>KV450U</b>	409	450	78.39	TAD1640GE	6L	144	165	16.1	472S5	3.47 x 1.63 x 2.04	3490	500
<b>KV550</b>	500	550	75.4	<b>KV500U</b>	455	500	88.79	TAD1641GE	6L	144	165	16.1	472M7	3.47 x 1.63 x 2.04	3620	500
<b>KV630</b>	573	630	85	—	—	—	—	TAD1642GE	6L	144	165	16.1	472L9	3.47 x 1.63 x 2.08	3780	610
—	—	—	—	<b>KV550U</b>	500	550	97.07	TAD1642GE	6L	144	165	16.1	472M7	3.47 x 1.63 x 2.08	3650	610

(1) Also available in the following voltages: 240/415 V, 220/380 V, 127/220 V, 115/220 V.

(2) Also available in the following voltages: 254/440 V, 127/220 V, 120/208 V.

(3) Prime power in direct current for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528, a 10% overload capacity is available for a period of 1 hour every 12-hour period of operation, in accordance with ISO3046-1.

(4) Emergency standby power available for supplying emergency power in variable load applications in accordance with ISO8528-1, no overload available for this service.

(5) The dimensions and weights apply to an unhoused generator set without options.

(6) Dry weight, without fuel.

(7) Also available in the following voltages: 220-240 V.

N/A Not available

## GENERATOR SET CONTROLS

# DEC4000

THE KOHLER® DEC4000 CONTROL UNIT is straightforward and user-friendly, with the emphasis on communication USB connections, PC connections, control software and remote operation.



THE DEC4000 DESIGN OFFERS SIMPLICITY WITH A REDUCED NUMBER OF BUTTONS TO OPERATE YOUR GENERATOR SET.

ADDITIONAL FEATURES INCLUDE:

- | Integrated maintenance monitoring programs (on-screen display of future maintenance operations)
- | Built-in troubleshooting tool guides the user in the event of any alarms or faults
- | Ability to send e-mail, SMS or Fax in the event of any alarms or faults as an option
- | Optional tropical insulation of the circuit boards to provide protection in extremely humid conditions
- | Compliance with various requirements or regulations (CE, UL, etc.)
- | Screen with contrast adapted to all types of lighting
- | Five languages featured, with numerous other optional languages
- | Remote monitoring and field updates via USB connection

GENERATOR SET CONTROLS

DEC 1000

THE KOHLER® DEC 1000 CONTROL UNIT enables operation in both manual and automatic modes. Modular in design, it offers high-quality basic functions, allowing easy and reliable operation of your generator set.



Generator Model 50 Hz	Generator Model 60 Hz	DEC1000 Controller	DEC4000 Controller
All KM models	All KM models	Standard	Option
KD22 – KD300	KD20U – KD275U	Standard	Option
KD400 – KD440	KD350U – KD400U	N/A	Standard
KV220	KV200U	Standard	Option
KV275 – KV630	KV250U – KV550U	N/A	Standard

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on DEMAND on CALL

## Industrial Power Systems Catalog

600 kVA – 2000 kVA, 50 Hz

550 kW – 2000 kW, 60 Hz

**KOHLER**<sup>®</sup>

**POWER PRODUCTS FROM**  
**600 kVA TO 2000 kVA/50 Hz**  
**550 kW TO 2000 kW/60 Hz**



**KOHLER 2000 kW diesel generator**

**PACKED WITH POWER,  
 ENGINEERED FOR TOTAL  
 PERFORMANCE**

Critical power applications are part of every industry; protecting them starts with reliable KOHLER® generators, available in diesel, natural gas and LP gas configurations. Our diesel models deliver dependable power to a wide range of output requirements. From small-load residential and business to heavy industry, every KOHLER generator is engineered to provide maximum power, performance, flexibility and fuel efficiency.

<b>STANDARD FEATURES AND ACCESSORIES</b>			
	<b>600REOZM— 1000REOZM</b>	<b>1250REOZM— 2000REOZM</b>	
<b>Engine</b>			
Four-stroke water-cooled diesel engine	Standard	Standard	
Electronic governor	Standard	Standard	
Air cleaner, dry	Standard	Standard	
Air cleaner, heavy duty	Option	Option	
Air cleaner restriction indicator	Option	Option	
Oil filter	Standard	Standard	
Block heater, 220/240 V	Option	Option	
<b>Alternator</b>			
Single-bearing alternator, insulation class H	Standard	Standard	
Dripproof construction	Standard	Standard	
Permanent magnet-excited generator (PMG)	Standard	Standard	
Reactive droop compensator	Option	Option	
<b>Generator Set</b>			
Structural skid with integrated vibration isolation	Standard	N/A	
Structural skid in solid mount	N/A	Standard	
Decision-Maker™ 3+, 16-light controller	Standard	N/A	
Decision-Maker 550 controller	Option	Standard	
KOHLER cream beige color	Standard	Standard	
Line circuit breaker	Option	Option	
Oil drain extension	Standard	Standard	
Spring isolator	Option	Option	
Residential silencer	Option	Option	
Flexible exhaust connector	Option	Option	
<b>Cooling System</b>			
Unit mount radiator for 40°C ambient	Standard	Standard	
Unit mount radiator for 50°C ambient	Option	Option	
Protection guard for fan and revolving parts	Standard	Standard	
Low coolant level shutdown (unit-mounted radiator models only)	Standard	Standard	
Radiator core protective grill	Standard	Standard	
<b>Starting System</b>			
Charging alternator and starter motor voltage	24 V	24 V	
Battery (24 V)	Option	Option	
Battery rack and cables	Option	Option	
Battery charger	Option	Option	
<b>Diesel Fuel System</b>			
Fuel filter	Standard	Standard	
Flex fuel lines (installed)	Option	Option	
Flex fuel lines (loose)	Option	Option	
<b>Literature</b>			
Operator and installation literature	Standard	Standard	
General maintenance literature kit	Option	Option	
Overhaul literature kit	Option	Option	
Production literature kit	Option	Option	

N/A = Not Available



**600 kVA-2000 kVA THREE-PHASE GENERATOR SETS (50 Hz)**

Specifications @ 1500 rpm, 240-416 V, PF:0.8

Generator Set Model(1)	kVA		kW		Fuel Consumption		Unhoused Version(5)	
	Prime Power(3)	Standby Power(4)	Prime Power(3)	Standby Power(4)	Prime 3/4 L/h	Standby 3/4 L/h	Dimensions	Weight kg(6)
600REOZM	605	660	484	528	94	102	3.77 x 1.56 x 2.06	4950
750REOZM	750	830	600	664	131.7	119.6	4.17 x 1.72 x 2.00	6500
800REOZM	830	910	664	728	130.6	143.8	4.17 x 1.72 x 2.00	6500
1000REOZM	1065	1165	852	932	165	180	4.57 x 2.05 x 2.22	8750
1250REOZM	1285	1400	1028	1120	196	213	5.08 x 2.22 x 2.23	11310
1600REOZM	1600	1725	1280	1380	258	283	5.76 x 2.21 x 2.50	13000
1800REOZM	1813	1988	1450	1590	277	302	5.93 x 2.21 x 2.50	14000
2000REOZM	2000	2200	1600	1760	309	338	6.09 x 2.12 x 3.26	15000

**550 kW-2000 kW THREE-PHASE GENERATOR SETS (60 Hz)**

Specifications @ 1800 rpm, 277-480 V, PF:0.8

Generator Set Model(2)	kVA		kW		Fuel Consumption		Unhoused Version(5)	
	Prime Power(3)	Standby Power(4)	Prime Power(3)	Standby Power(4)	Prime 3/4 L/h	Standby 3/4 L/h	Dimensions L x W x H, m	Weight kg(6)
600REOZM	688	756	550	605	116	126	3.60 x 1.56 x 2.06	4950
750REOZM	850	938	680	750	151.8	165.8	3.99 x 1.72 x 2.00	6500
800REOZM	913	1013	730	810	162	177.2	3.99 x 1.72 x 2.00	6500
1000REOZM	1156	1275	925	1020	194	211	4.57 x 2.05 x 2.22	8750
1250REOZM	1425	1563	1140	1250	241	263	5.10 x 2.22 x 2.23	11310
1600REOZM	1813	2000	1450	1600	295	321	5.76 x 2.21 x 2.50	13000
2000REOZM	2275	2500	1820	2000	348	381	6.09 x 2.12 x 3.26	15000

(1) Also available in the following ranges: 230/400 V, 220/380 V.

(2) Also available in the following ranges: 220/380 V.

(3) Prime power ratings apply to installations where utility power is unavailable or unreliable. 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, overload power accordance with ISO 3046-1, BS 5514, AS 2789 and DIN 6271.

(4) Standby power ratings apply to installations served by utility source. The standby rating is applicable to varying loads for the duration of power outage. There is no overload capability for this rating.

Ratings are in accordance with ISO 3046-1, BS 5514, AS 2789 and DIN 6271.

(5) The dimensions and weights apply to an unhoused generator set without options.

(6) Wet weight, without fuel.



**KOHLER 800 kW generator**



**KOHLER 2000 kW generator**

## APPLICATION MANAGEMENT, TO THE HIGHEST POWER

Whether your concern lies with the simplest functions or the entire operation of a highly sophisticated system, KOHLER® generator controls give you the power to manage the application. Each control product is customizable to your specifications, engineered with safety and simplicity in mind to ensure displays and keypad functions remain user-friendly. Our complete line of Decision-Maker™ models feature innovative network communications for remote monitoring and also include programmable software to accommodate future system upgrades.

## DEC550



### THE DECISION-MAKER 550 (DEC550)

generator set controller provides advanced control, system monitoring and system diagnostics for optimum performance. The DEC550 controller provides complete compatibility with selected engine Electronic Control Module (ECM) and non-ECM equipped generator set engines.

#### Standard Features

- Meets requirements of NFPA 99 and NFPA 110, Level 1
- UL 508A Listed
- Vacuum fluorescent digital display and keypad
- Two-line display of 20 characters provides information in English or metric units
- Communicate directly with PC via a network or modern configuration
- Supports Modbus® RTU (Remote Terminal Unit), an industry standard open communication protocol

#### Operating Characteristics

- Power source with circuit protection: 12- or 24-volt DC
- Power drain: 700 milliamps (400 milliamps without panel lamps)
- Humidity range: 5% to 95% noncondensing
- Operating temperature range: -40°C to +70°C (-40°F to 158°F)
- Storage temperature range: -40°C to +85°C (-40°F to 185°F)
- Dimensions (mm): 460 mm wide x 275 mm high x 291 mm deep

	Standard	Optional
User Interface		Emergency stop switch Alarm horn Annunciator lamps Generator set master switch, run/off-reset/auto positions Digital display Keypad Operating guide Controller terminal strips
Measurement		Battery voltage Coolant—level Coolant—pressure Coolant—temperature Engine start countdown Fuel—pressure Fuel—temperature Fuel rate expressed as L/hr. (gal./hr.) Fuel—used last run expressed as L (gal.) as the accumulated fuel quantity Oil—level and crankcase pressure Oil—pressure Oil—temperature Rpm Temperature—ambient Temperature—intake air <b>Generator monitoring data:</b> Current (L1, L2, L3), ±0.25% accuracy Frequency, ±0.5% accuracy Kilowatts, total per phase (L1, L2, L3), ±0.5% accuracy KVA, total per phase (L1, L2, L3), ±0.5% accuracy KVAR, total absorbing/generating per phase (L1, L2, L3), ±0.5% accuracy Percent alternator duty level (actual load kW/standby kW rating) Power factor per phase, leading/lagging Voltage (line-to-line, line-to-neutral for all phases), ±0.25% accuracy
Indicator Light/ Messages		Alarm horn Five LED status indicating lights Indicators: Not in auto (yellow) Program mode (yellow) System ready (green) System shutdown (red) System warning (yellow) Switches and standard features: Keypad, 16-button multifunction sealed membrane Lamp test Switch, auto, off/reset, run (engine start) Latch-type emergency stop switch with International Electromechanical Commission (IEC) yellow ring identification
Automatic Functions		Alternator protection Idle speed start Voltage regulation Cool-down mode Battleswitch mode Load shed mode Paralleling relays for KOHLER PD-Series switchgear
Operational Records		Event history (stores up to 100 system events) Last start date Number of starts Number of starts since last maintenance Operating days since last maintenance Operating mode—standby or prime power Run time (total, loaded and unloaded hours, and total kW hours) Run time since maintenance (total, loaded, and unloaded hours and total kW hours) System shutdowns System warnings Time, date and day of week
Accessories		Monitor III Software for monitoring and control (Windows®-based user interface) Converter, Modbus / Ethernet Run relay Key-controlled, master switch Prime power switch Remote annunciator panel Remote emergency stop panel

# DEC3+



**THE KOHLER DEC3+** generator set controller provides system control, monitoring and diagnostics for optimum performance. It also provides both analog AC meters and engine gauges, and a 16-light annunciation of shutdowns, warnings and status events.

## Standard Features

- Supports Modbus RTU (Remote Terminal Unit communication protocol) via RS-485 networks
- Supports Modbus® TCP (Transmission Control Protocol) via Ethernet (Converter GM41143-KP1 required)
- Supports CANbus J1939 communication protocol for ECM engines
- Contains microcomputer-based logic with a ROM (read-only memory)-based control algorithm
- Upgradeable software for new system functionality
- Provides over-speed protection, cool-down mode and a selectable crank mode
- Meets the National Fire Protection Association requirements of NFPA 99 and NFPA 110 with additional accessories. NFPA 110, Level 1 requirements typically apply to health care facilities; NFPA 110, Level 2 requirements apply to less-critical applications
- Uses conformal coated circuit boards for environmental durability

## Operating Characteristics

- Power source with circuit protection: 12- or 24-volt DC
- Power draw: 220 milliamps in system ready mode (or 200 milliamps without panel lamps)
- Humidity range: 5% to 95% noncondensing
- Operating temperature range: -40°C to +70°C (-40°F to +158°F)
- Storage temperature range: -40°C to +85°C (-40°F to +185°F)
- Dimensions: 461 mm wide x 247 mm high x 297 mm deep

	Standard	Optional
<b>User Interface</b>		Fuses inside controller Frequency meter AC voltmeter Controller TB1 and TB2 terminal strips AC ammeter Annunciator panel lamps Scale lamps Selector switch Alarm silence switch Lamp test Generator set master switch Alarm horn Emergency stop switch (if equipped) DC voltmeter Water temperature gauge Voltage adjustment (if equipped) Oil pressure gauge Hour meter
<b>Measurement</b>		Analog gauges, 51 mm (2 in.): Pressure gauge, oil Temperature gauge, engine cooling system Voltmeter, DC battery Analog meters, 89 mm (3.5 in.): AC ammeter, 2% of full-scale accuracy AC voltmeter, 2% of full-scale accuracy Frequency meter, 0.5% of full-scale accuracy Running-time meter
<b>Automatic Functions</b>		Mode, prime power via jumper selection Shutdown, over-voltage protection Timer, engine cool down
<b>Indicator Light/ Messages</b>		Panel illumination lamps (2) Sixteen LED indicating lights for status, warnings and shutdowns Status indicators: Master switch not-in-auto; system ready <b>Warning indicators:</b> Auxiliary (multiple function) Battery charger Fuel, low—level or pressure Pressure, low oil Temperature, low water (engine) Temperature, high engine Voltage, high battery Voltage, low battery <b>Shutdown indicators:</b> Auxiliary (multiple function) Emergency stop Low fuel (utilizes auxiliary indicator) Level, low coolant (utilizes auxiliary indicator) Overcrank Overspeed Temperature, high engine Pressure, low oil Underfrequency (utilizes auxiliary indicator) Panel illumination lamps (2) Horn, alarm (with silencing switch) Potentiometer, generator output voltage-adjusting Switch, latch-type emergency stop Switch, lamp test Switch, meter range selector Switch, run, off/reset, auto (engine start) generator set master
<b>Accessories</b>		Hand-held diagnostic fault detector Controller-mounted emergency stop switch Remote annunciator panel Communication module Converter, Modbus®/ Ethernet

Modbus® is a registered trademark of Schneider Electric.

# AUTOMATIC TRANSFER SWITCHES

## SAFE, DEPENDABLE PROTECTION FOR CRITICAL FACILITIES

Bridging the utility with standby power is no small job, which is why KOHLER® transfer switches are indispensable to the all-KOHLER power system. The MPAC™ 1500—Kohler’s new generation of transfer switches—is loaded with sophisticated technologies and advanced design features that ensure transfer of power to critical-load applications. When power fails, power is transferred from the standby system within one-sixth of a second. And you continue functioning as normal.

## KOHLER PROVIDES A COMPLETE RANGE OF AUTOMATIC TRANSFER SWITCHES.

There are a large number of benefits to our technology, both in terms of cost and ease of installation. The design of the control units and boxes enables even cables with large cross sections to be easily connected. The front panel of the unit no longer opens on just one side, like a conventional control unit, but on three sides, allowing total access to all the connections for the power equipment and terminal blocks. All our control units are either three-pole or four-pole. The transfer switch control logic is fitted as standard to our entire range of automatic transfer switches, whatever the rating of their switching component (from 30A to 4000A).



		800 - 1000A		1200A		1600 - 2000A		2600 - 3000A		4000A	
Voltage	208-600 V 50/60 Hz	•	•	•	•	•	•	•	•	•	•
Changeover		Open Transition	Programmed Transition	Open Transition	Programmed Transition	Open Transition	Programmed Transition	Open Transition	Programmed Transition	Open Transition	Programmed Transition
Dimensions	Height, mm	1932	1932	2286	2286	2286	2286	2286	2286	2286	2286
	Width, mm	864	864	963	963	965	963	963	963	1168	1166
	Depth, mm	515	515	686	688	1220	1220	1524	1524	1829	1828

Available in 3 or 4 poles

**KOHLER**

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**IS** **KOHLER**  
POWER SYSTEMS  
NATIONALLY REGISTERED