

# K-HEM SERIES

KOHLER® Hybrid Energy Modules



**HYBRID**

**KOHLER®**  
IN POWER. SINCE 1920.

# Kohler hybrid solution optimizes the use of multiple energy sources to provide quiet, compact and efficient power for today's advanced applications



KOHLER Hybrid Energy Modules offers a hybrid electrical and mechanical power generation. K-HEM Series currently features two models:

- K-HEM 1003: a KDW 1003 diesel engine coupled with a 48-volt electric motor
- K-HEM 2504: a KDI 2504TCR diesel engine coupled with a 48-volt electric motor

## FACTORY OPTIONS

K-HEM units can operate as a generator and as an energy accumulation system

K-HEM units are suitable for a wide range of applications: forklifts, tractors, welders, mowers, aerial platforms, and more.

The built-in master control unit monitors and manages working modes and transitions

## KEY BENEFITS

### K-HEM 1003

- Energy recovery system
- Surplus energy storage
- Low emission
- No aftertreatment system
- Reduction of engine complexity

## KEY BENEFITS

### K-HEM 2504

- Energy recovery system
- Enhanced performance
- No SCR
- Low fluid consumption
- Improved DPF operation

MODEL	K-HEM 1003	K-HEM 2504
GROSS POWER @RPM max. kW (Hp)	17.7 + 15.0 Peak Electric @ 3000 (23.6 + 20.0 Peak Electric) @ 3000	55.4 + 19.5 Peak Electric @ 2600 (75 + 26 Peak Electric) @ 2600
PEAK TORQUE@ RPM (Nm)	60 + 100 (Peak Electric) @ 2000	315 + 100 (Peak Electric) @ 1500
ARCHITECTURE	3-cylinder + E-machine	4-cylinder + E-machine
INTAKE	Naturally Aspirated	Turbocharged
INJECTION	Indirect Mechanical	Common Rail Direct Injection
VALVES	2 per cylinder	4 per cylinder
DISPLACEMENT (cc)	1028	2482
BORE (mm)	75	88
STROKE (mm)	77.6	102
COMPRESSION RATIO	22.8:1	17.5:1
DRY WEIGHT lb (kg)	289 (131)	699 (317)
OIL CAPACITY U.S. qt (L)	25.4 (2.4)	11.9 (11,3)
KOHLER FLEX	-	EGR + DOC + DPF
EMISSION COMPLIANCE	EU Stage V / US Tier 4 Final	EU Stage V / US Tier 4 Final

For more information, contact your KOHLER source of supply. Kohler Co. reserves the right to make modifications without prior notice.

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**KOHLERENGINES.COM**

Printed in Italy ED0035585730 Rev.04 09/19 Eng KOHLER CO.