

# K-HEM SERIES

KOHLER® Hybrid Energy Modules



**HYBRID**

**KOHLER®**  
IN POWER. SINCE 1920.

# Rather than set the different energy sources up in competition with each other, Kohler integrates them so as to reap all of their potential value



KOHLER Hybrid Energy Modules are the units for the hybrid electrical and mechanical combined power generation. K-HEM Series currently features two models:

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

## 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 with implements, welders, mowers, aerial platforms, etc.

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 rate
- No aftertreatment system
- Reduction of engine complexity

## KEY BENEFITS

### K-HEM 2504

- Energy recovery system
- Enhanced performances
- No SCR
- High fluid efficiency
- Improved DPF operation (higher machine availability)

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	Inline 3-cylinder engine + E-machine	Inline 4-cylinder engine + 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)
OTHER	No DPF, no DOC	EGR + DOC + DPF, no SCR

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