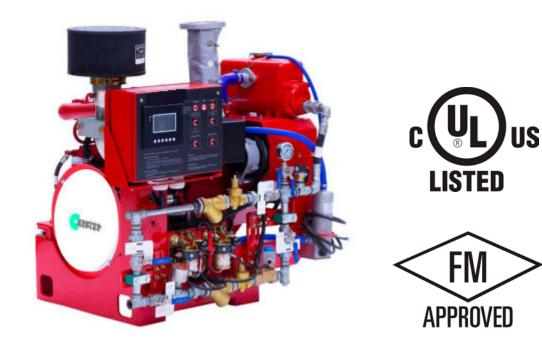


Engine Specification Sheet



| Model | Ratings HP (kW) @ Rated speed rpm |
|------------|-----------------------------------|
| Woder | 2950 |
| CH6-108-EE | 335 (250) |

| ENGINE SPECIFICATIONS | | | | | | | |
|--|-----------------|------------------------------|--|--|--|--|--|
| Туре | 4 Cycle; In-lir | ne; water cooled; 6 Cylinder | | | | | |
| Aspiration | Turboch | arged +Water Cooled | | | | | |
| Bore and Stroke | mm×mm | 108x125 | | | | | |
| Displacement | L | 6.871 | | | | | |
| Compression Ratio | | 17.5:1 | | | | | |
| Combustion System | [| Direct Injection | | | | | |
| Rotation Viewed from flywheel | Сс | ounter Clockwise | | | | | |
| Dry Weight Approx. | kg | 930 | | | | | |
| Dimension Approx. (L*W*H) | mm | 1620*1000*1465 | | | | | |
| Crankshaft Centerline Height | mm | 400 | | | | | |
| Oil Capacity | L | 24 | | | | | |
| Coolant Capacity - Engine + Heat Exchanger | L | 30 | | | | | |

Document No.: SS06108E



model CH6-108-EE

| Engine Equipment | Standard | Optional | | | | | |
|---|---|---------------------------------------|---|--|--|--|--|
| Air Cleaner | Drip proof | N/A | | | | | |
| Alternator | 24V-DC, 55 Amps with BeltGuard | · · · · · · · · · · · · · · · · · · · | | | | | |
| Coupling | Bare Flywheel | N/A | | | | | |
| Engine Heater | 220V-AC | | | | | | |
| Exhaust Flex Connection | DN100 | | | | | | |
| Exhaust Protection | Metal Guard | N/A | | | | | |
| Flywheel Housing | SAE 2 | N/A | | | | | |
| Flywheel Power Take Off | SAE 11.5 | N/A | | | | | |
| Fuel Connections | Flexible hoses according ISO 15540 | N/A | | | | | |
| Fuel Filter | Full flow, cartridge type | N/A | | | | | |
| Governor, Speed | Constant speed, mechanical | N/A | | | | | |
| Heat Exchanger | Shell and Tube Type | N/A | | | | | |
| Instrument Panel | Build on Engine | N/A | | | | | |
| Junction Box | Integrated in control panel | N/A | | | | | |
| Lube Oil Cooler | Jacket Water Cooled | N/A | | | | | |
| Lube Oil Filter | Full flow, cartridge type | N/A | | | | | |
| ube Oil Pump | Gear Driven, Gear Type | N/A | | | | | |
| Vanual Start Control | Dual Manual Start Contactors | N/A | | | | | |
| Overspeed Control | Electronic instrument panel, test on instrument panel | N/A | | | | | |
| Raw Water Cooling Loop w/ Alarms | Galvanized | Seawater (All 316 SS) | | | | | |
| Raw Water Solenoid Operation | Automatic from Fire Pump Controller and from Engine Instrument Panel (for Horizontal Fire Pump Applications) | N/A | | | | | |
| Run - Stop Control | On Instrument Panel with Control Position Warning Light | N/A | | | | | |
| Starters | 24V-DC, 6 KW | N/A | | | | | |
| Throttle Control | Adjustable speed control | N/A | | | | | |
| Water Pump | Centrifugal Type, Gear Driven | N/A | | | | | |
| All data is based on the engine opera compressor, fan, optional equipment, of 300ft (91,4m) altitude, 29.61 in.(752 follow the standard GB 252-2011. | ting with fuel system, lubricating oil pump, and driven components.;Data is based on 2mm) Hg dry barometer, and 77°F (25°C) i | operation at SAE st | andard J1394 conditior Ire, using 0# diesel fuel | | | | |
| Altitude above which output should b | | m (ft.) | 91 (300) | | | | |
| Correction Factor per 305n | | 3% | | | | | |
| Temperature above which output sho | °C (°F) | 25 (77) | | | | | |
| Correction Factor per 5.6°C | (10°F) above Temperature Limit | | 1% | | | | |
| Remark: | | | | | | | |
| 1.All data certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable; | | | | | | | |

| Ö HESTER | Eng | gine Data Sheet | | | | | | |
|---------------------------|-----------------------|-----------------------|----------------------|-------------------------|--|--|--|--|
| | | | | | | | | |
| Engine Model | CH6-108-EE | Date | 2020/6/18 | | | | | |
| Drawing No. | CH6-108-EE.00 | Performance Curve No. | C0 | 6108E | | | | |
| Rated Power | 335 HP @2950 RPM | Reference No. | 140 | S001E | | | | |
| Nated Power | 250 KW @ 2950 RPM | Version | А | | | | | |
| | GE | NERAL ENGINE DATA | | | | | | |
| Туре | | | 4 Cycle; In-line; wa | ater cooled; 6 Cylinder | | | | |
| Aspiration | | | Turbochargeo | d +Water Cooled | | | | |
| Bore and Stroke | | | mm×mm | 108x125 | | | | |
| Cylinder Liner Type | | | ✓ Wet Dry | | | | | |
| Displacement | | | L | 6.871 | | | | |
| Compression Ratio | | 1 | 7.5:1 | | | | | |
| Firing Order | | | 1-5- | 3-6-2-4 | | | | |
| Combustion System | | | Direct Injection | | | | | |
| Rotation Viewed from f | front of engine | | | CW | | | | |
| Valves Per Cylinder | | | Intake :1 | Exhuast :1 | | | | |
| Valves lashes at cold | | Intake | mm (inch) | 0.40~0.45 | | | | |
| valves lasties at colu | | Exhaust | mm (inch) 0.46~0.52 | | | | | |
| Ignition Type | | | Compression(Diesel) | | | | | |
| Charge Air Cooling Ty | pe | | Raw Water | | | | | |
| Dry Weight Approx. | | | kg | 930 | | | | |
| Dimension Approx. (L | _*W*H) | | mm | 1620*1000*1465 | | | | |
| Flywheel/ Flywheel Ho | use Dimension | | 11.5' | '/ SAE 2 | | | | |
| Torque at rated RPM | | | N.m | 824 | | | | |
| | | EXHAUST SYSTEM | | | | | | |
| Exhaust Gas Temp. at | max. rating/power | | °C | 600 | | | | |
| Exhaust Gas Flow at I | Max. output | | m³/h | 3510 | | | | |
| Max. Allowable Back P | Pressure | | kpa | 10 | | | | |
| Minimum Exhaust Pipe | e Diameter | | DN | 100 | | | | |
| | A | NR INTAKE SYSTEM | | | | | | |
| Air Cleaner Type | | | Dry Type | | | | | |
| Air Flow at Max. output | t | | m³/h | 1284 | | | | |
| Air Inlet Restriction Dir | ty | | kpa | 6 | | | | |
| Air Inlet Restriction Cle | ean | | kpa | 3 | | | | |
| | LU | BRICATION SYSTEM | | | | | | |
| Oil Capacity | | | L | 24 | | | | |
| Max. Sump Oil Temp. | | | °C | 120 | | | | |
| Normal Operating Oil F | Pressure Range | bars | 2.5~6.0 | | | | | |
| Oil Pressure at Idle | | bar | >1 | | | | | |
| | | COOLING SYSTEM | | | | | | |
| Coolant Capacity - Eng | gine + Heat Exchanger | | L | 30 | | | | |
| Thormostat Bassa | | Start Open | °C | 75 | | | | |
| Thermostat Range | | Full Open | °C | 85 | | | | |
| Coolant Pressure Cap | | | bar | 0.9 | | | | |
| Max. Engine Coolant T | emp. | | °C | 98 | | | | |
| Engine Coolant Flow a | t Full Load | | m ³ /h | 23 | | | | |
| Raw Water Cooling Ca | apacity | | m ³ /h 10 | | | | | |

| ÄHESTER Eng | gine Data Sheet | | | | |
|---|---|---------------------|-----------------|--|--|
| Raw Water Pressure | bar | 2 | | | |
| Min. Raw Water Temp. | °C | 15.6 | | | |
| Pow Water Pipe Size | G1" | | | | |
| Raw Water Pipe Size | G | 1 1/4" | | | |
| | HEATER SYSTEM | | | | |
| Wattage | | W | 3000 | | |
| Voltage AC | | V 220 | | | |
| ELI | ECTRICAL SYSTEM-DC | | | | |
| System Voltage(Nominal) | | V | 24 | | |
| Starter motor | | Kw | 6 | | |
| Recommended Battery Capacity | | AH | 180 | | |
| Cold Cranking Amperes @ -18℃ (0⁰F) | | CCA | 900 | | |
| Reserve Capacity (RC) | | Min | 360 | | |
| Charging Alternator Output | | Amps | 55 | | |
| Max. Starter Cranking Amps @4.5°C(0°F) | | Amps | 370 | | |
| Min. Cranking Speed Required for Unaided Colo | rpm | 260 | | | |
| | FUEL SYSTEM | | | | |
| Injection Pump | | | | | |
| Injection Advance Angle | | 0 | 16 | | |
| Minimum Supply line Size | mm | 10 | | | |
| Minimum Return line Size | mm | 10 | | | |
| Fuel Management Control | Mechanical | | | | |
| Max. Fuel Consumption | | g/kw,h | 256 | | |
| Idle Speed | | rpm | 750 | | |
| Max. Governed Speed | | rpm | 3245 | | |
| Maximum allowable fuel height above fuel pump |) | m | 3 | | |
| Governed Speed Rate | % | <10 | | | |
| | gine Performance Data | | | | |
| Estimated free field soud pressure level at 1 me speed(Includes Noise from: exhaust;: Cooling S Components) | dBa | 108 | | | |
| All data is based on the engine operating with fu included are compressor, fan, optional equipme standard J1394 conditions of 300ft (91,4m) altitu temperature, using 0# diesel fuel follow the stan | nt, and driven components.; ude, 29.61 in.(752mm) Hg d | Data is based on op | peration at SAE | | |
| Altitude above which output should be Limited | m (ft.) | 91 (300) | | | |
| Correction Factor per 305m.(1,000ft.) a | 3% | | | | |
| Temperature above which output should be Lim | °C (°F) | 25 (77) | | | |
| Correction Factor per 5.6°C (10°F) above | . , | 1% | | | |
| emark: | | | | | |
| All daa certified within 5%; TBD - To Be Determined; N/A - Not Applicable; | | | | | |



DIESEL ENGINE

| Engine Model Displacement 6.87 L | | | H6-108-EE | | | | | 206108E | Date Date Ver Standard | | 2020/6 UL/FM | |
|-------------------------------------|--------------------|--------|---|-----------------------------|---------------------|------------------------|------|-----------------------------|------------------------|------|------------------|-----|
| Bore | | | | Turbo | | | | | | | | |
| | | - | nder Qty. 6 I System In-Line; Mechanical | | | | | 35 HF | | 2950 | | |
| | | | | | | | | ļ | | | | |
| 300 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 250 | | | | | | | | | 250 |) | | - |
| | | | | | | | | | | | | |
| 200 | | | | | | | | | | | | |
| 200 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 150 | | | | | | | | | | | | |
| Υ K | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 0 1470 | 1 | 760 | 210 |)0 | 235 | 50 | 2650 | | 2950 | RP | M | J |
| Τ | orque | | | | Output F | Power | | F | Fuel Co | nsum | ption | |
| Speed RPM N-1 1470 | Torque n | lb-ft. | | Speed RPM 1470 | Outp u KW | u t Power HP | | Speed RPM 1470 | | | iption lb/BHP | -HR |

Α

0.421

REV: