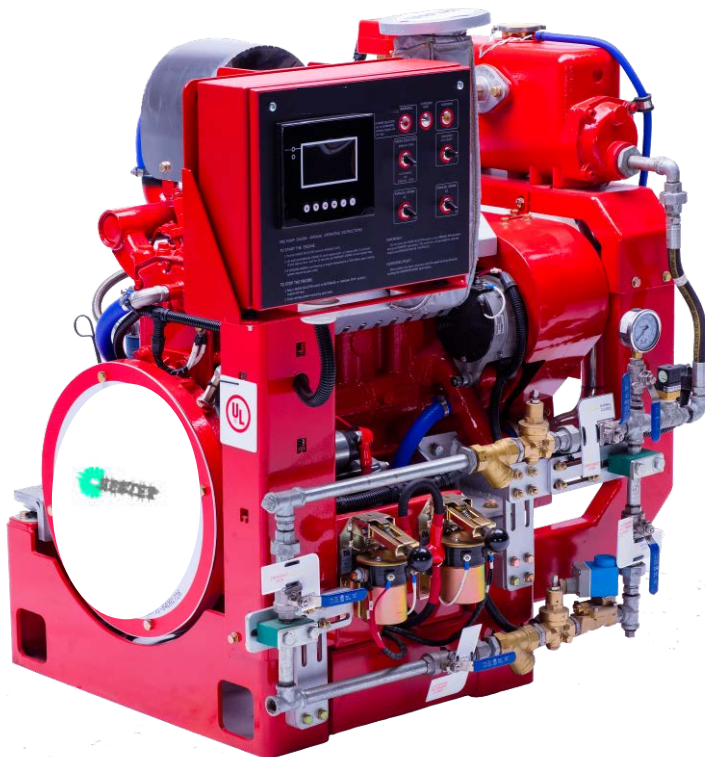


Engine Specification Sheet



Model	Ratings HP (kW) @ Rated speed rpm
	2950
CH4-90-E	51 (38)

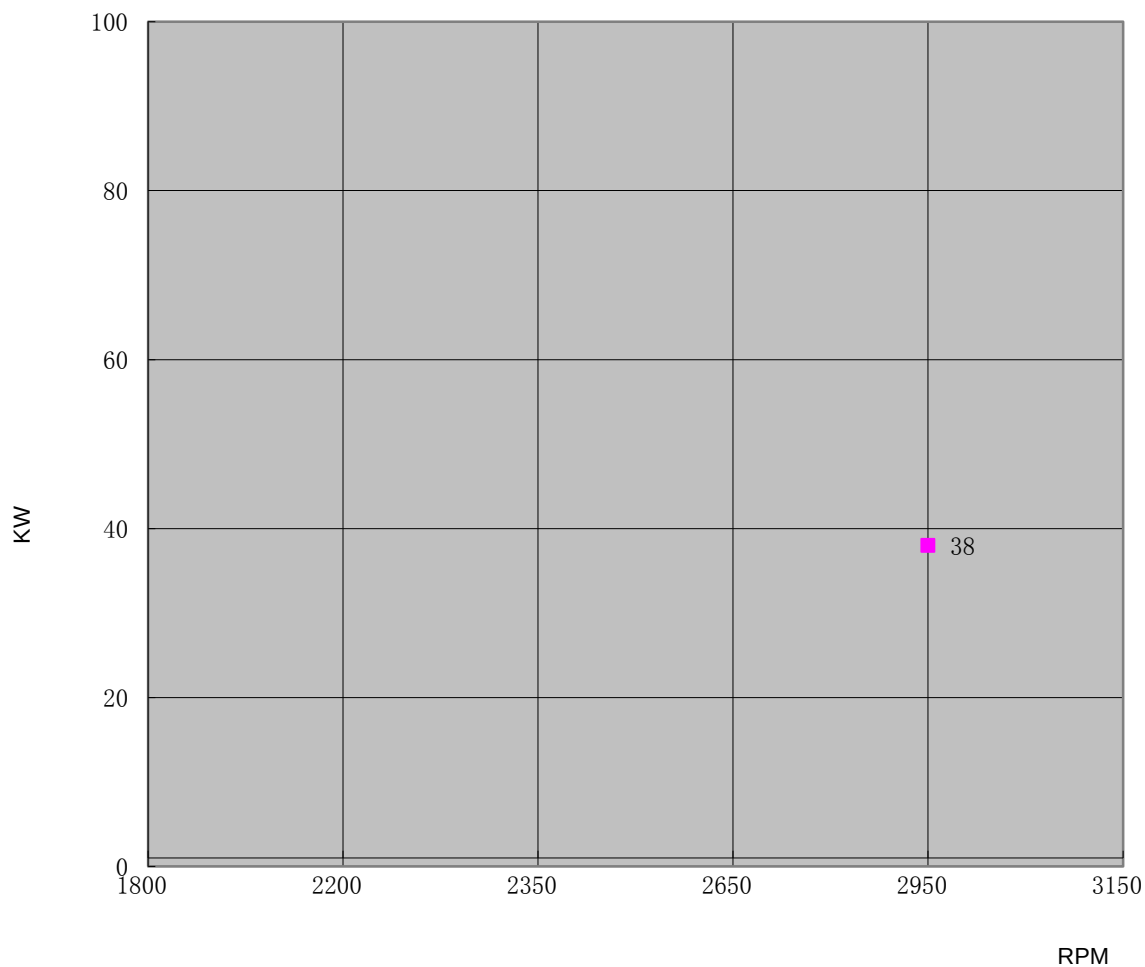
ENGINE SPECIFICATIONS		
Type	4 Cycle; In-line; water cooled; 4 Cylinder	
Aspiration	Naturally	
Bore and Stroke	mm×mm	90×105
Displacement	L	2.672
Compression Ratio	18:1	
Combustion System	Direct Injection	
Rotation Viewed from flywheel	Counter Clockwise	
Dry Weight Approx.	kg	375
Dimension Approx. (L×W×H)	mm	1110x900x1030
Crankshaft Centerline Height	mm	330
Oil Capacity	L	6.5
Coolant Capacity - Engine + Heat Exchanger	L	12.5

Engine Equipment	Standard	Optional	
Air Cleaner	Drip proof	N/A	
Alternator	24V-DC, 27 Amps with Belt Guard	N/A	
Coupling	Bare Flywheel	N/A	
Engine Heater	220V-AC	110V-AC	
Exhaust Flex Connection	DN50	N/A	
Exhaust Protection	Metal Guard	N/A	
Flywheel Housing	SAE 4	N/A	
Flywheel Power Take Off	SAE 7.5	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	
Lube Oil Pump	Gear Driven, Gear Type	N/A	
Manual 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,3.7KW	N/A	
Throttle Control	Adjustable speed control	N/A	
Water Pump	Centrifugal Type, Gear Driven	N/A	
All data is based on the engine operating with fuel system, lubricating oil pump, air cleaner, and alternator; not included are compressor, fan, optional equipment, and driven components.;Data is based on operation at SAE standard J1394 conditions of 300ft (91,4m) altitude, 29.61 in.(752mm) Hg dry barometer, and 77°F (25°C) intake air temperature, using 0# diesel fuel follow the standard GB 252-2011.			
Altitude above which output should be Limited		m (ft.)	91 (300)
Correction Factor per 305m.(1,000ft.) above Altitude Limit		3%	
Temperature above which output should be Limited		°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;			



DIESEL ENGINE

Engine Model		CH4-90-E		Curve No.		C0490	Date	2017/7/19
Displacement	2.67	L	Aspiration	Naturally		Power Standard		UL/FM
Bore	90	mm	Cylinder Qty.	4		38 KW @ 2950 r/min		
Stroke	105	mm	Fuel System	In-Line; Mechanical		51 HP @ 2950 r/min		



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1800		
2200		
2350		0
2650		0
2950	139	103
3150		0

Output Power		
Speed	Output Power	
RPM	KW	HP
1800		
2200		
2350		
2650		
2950	38	51
3150		

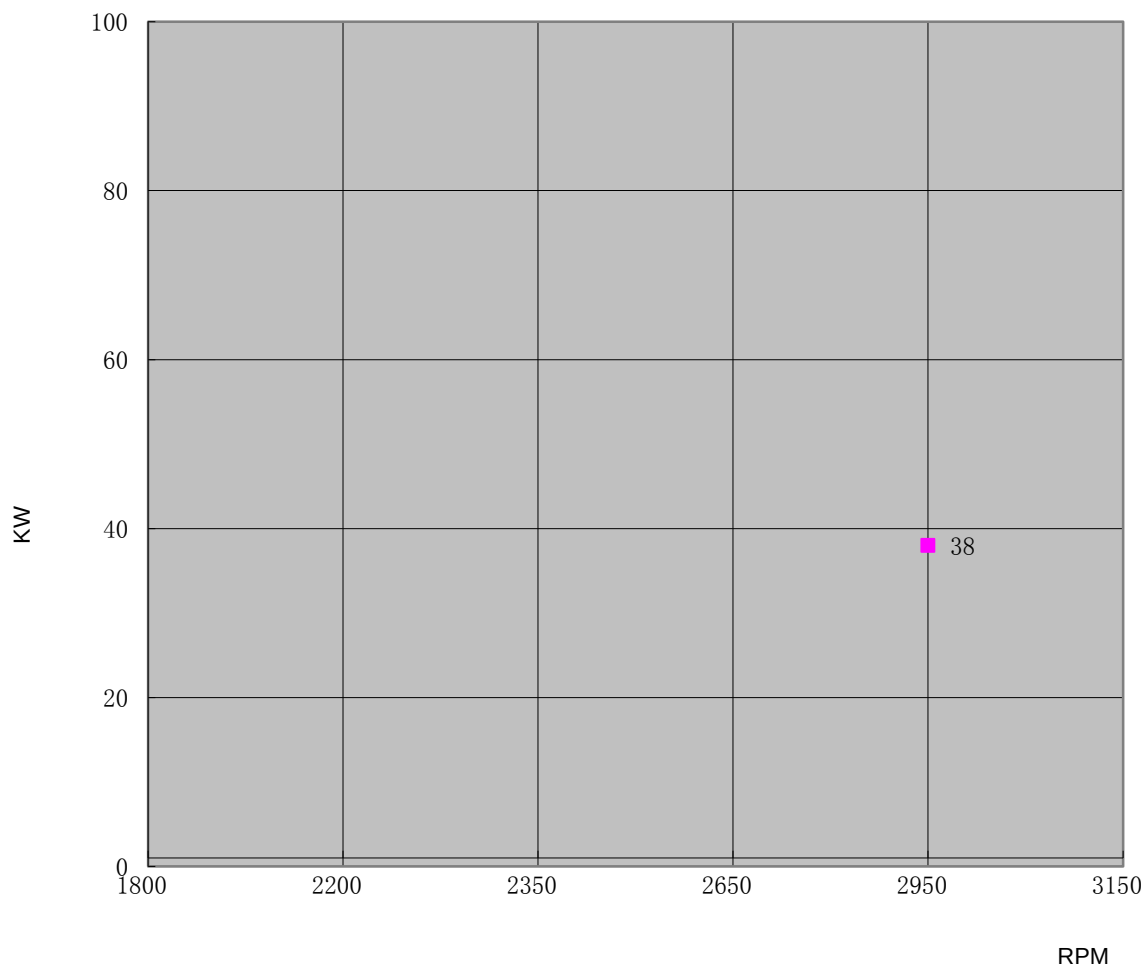
Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1800		
2200		
2350		
2650		
2950	240	0.395
3150		

REV: A



DIESEL ENGINE

Engine Model		CH4-90-E		Curve No.		C0490	Date	2017/7/19
Displacement	2.67	L	Aspiration	Naturally		Power Standard		UL/FM
Bore	90	mm	Cylinder Qty.	4		38 KW @ 2950 r/min		
Stroke	105	mm	Fuel System	In-Line; Mechanical		51 HP @ 2950 r/min		



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1800		
2200		
2350		0
2650		0
2950	139	103
3150		0

Output Power		
Speed	Output Power	
RPM	KW	HP
1800		
2200		
2350		
2650		
2950	38	51
3150		

Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1800		
2200		
2350		
2650		
2950	240	0.395
3150		

REV: A