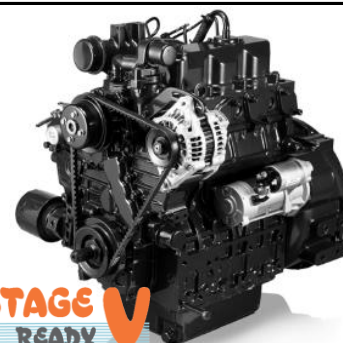


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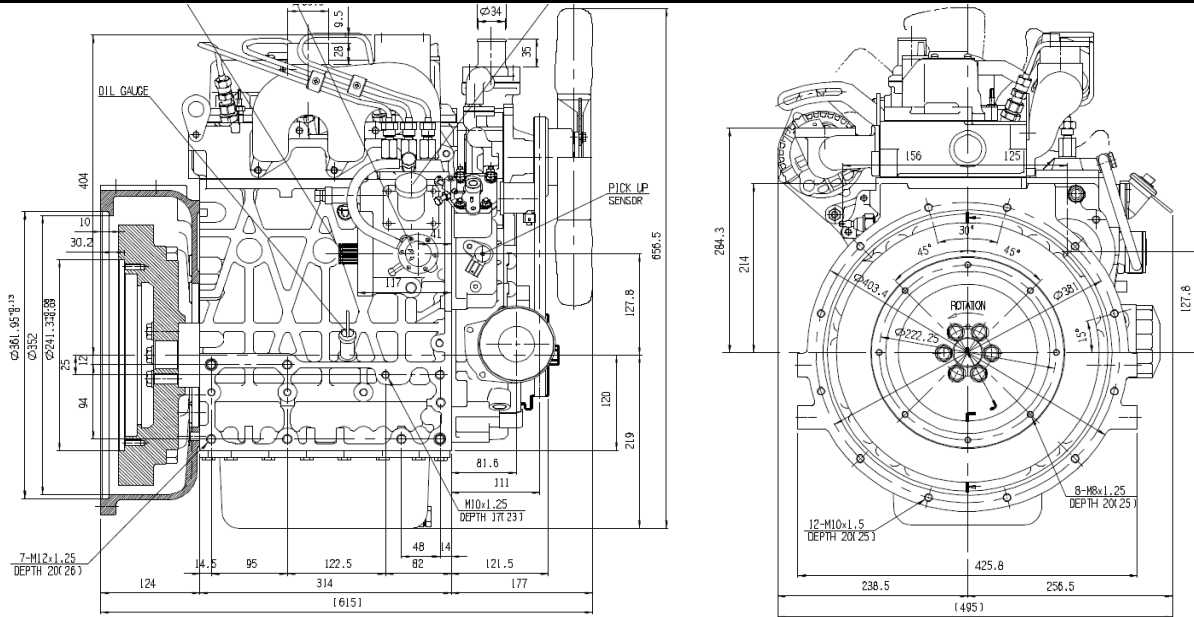
Type	Rated RPM	Ratings (kW/HP)	
		Gross Engine Output	Net Engine Output
LWS1	2600	18.3 / 24.9	17.6 / 23.9
LWS2	2400	18.3 / 24.9	17.6 / 23.9

◎ GENERAL ENGINE DATA

▶ Emission Level	EEC : StageV
▶ Engine Type	3-Cylinder, 4-Cycle, In-line, Diesel, Water cooled, N/A
▶ Bore x Stroke	Ø87 x 92.4 mm
▶ Displacement	1.647 liters
▶ Compression Ratio	21.7 : 1
▶ Combustor Type	In-Direct Injection(Swirl Chamber)
▶ Rotation	Counter clockwise viewed from Flywheel
▶ Dimension (L x W x H)	615 x 495 x 656 mm
▶ Dry Weight	175kg (with Fan)
▶ Rated Power [kW(HP)/rpm]	18.3(24.9)/2400 or 2600
▶ High Idle Rpm	2800±100
▶ Low Idle Rpm	1000±100
▶ Max. Torque [N·m(kgf·m)/rpm]	LWS : 84.3(8.6)/1700±100 LWS1 : 84.3(8.6)/2000±100
▶ Aspiration	N/A
▶ Governor Type	Mechanical Centrifugal
▶ Injection timing	16° BTDC
▶ Alternator Capacity	12V-75A
▶ Firing order	1-2-3
▶ Flywheel housing	SAE No.4
▶ Flywheel	Clutch No.7-1/2
▶ Number of teeth on flywheel	89

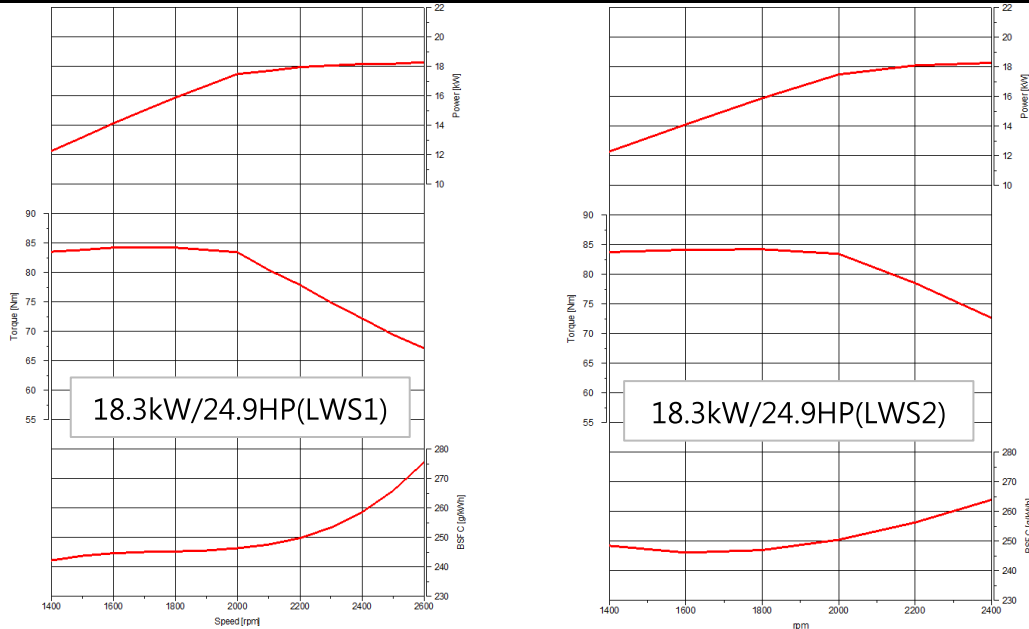


ENGINE DIMENSION



Designation	Length(L)	Width(W)	Height(H)	Dry weight
Value	615	495	656	175

Performance Curve



CONVERSION TABLE

in. = mm x 0.0394

PS = kW x 1.3596

psi = kg/cm² x 14.2233

in³ = lit. x 61.02

hp = PS x 0.98635

lb = kg x 2.20462

kW = Kcal/sec x 0.239

lb/ft = N.m x 0.737

U.S. gal = lit. x 0.264

kW = 0.2388 kcal/s

lb/PS.h = g/kW.h x 0.00162

cfm = m³ /min x 35.336

Mpa = Pa x 1000 = bar x 10