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3C100EG

Type	Rated RPM	Ratings (kW/HP)	
		Gross Engine Output	Net Engine Output
3C100LWEG-U	3600	16.4 / 22.0	16.4 / 22.0
3C100LWEG-U1	1800	10.0 / 13.4	10.0 / 13.4
3C100LWEG-E	3000	16.4 / 22.0	16.4 / 22.0
3C100LWEG-E1	1500	8.0 / 10.7	8.0 / 10.7

STAGE V READY

Ratings Definition

Emergency Standby and Prime power ratings adhere to ISO 8528 standards. Electric power (kWe) should account for factors such as cooling fan loss,alternator efficiency,altitude derating,and ambient temperature.
Standby Power Rating is meant for providing emergency power during utility outages. No overload capability is available for this rating and it should be sized for a maximum 80% average load factor, with a limit of 200 hours of operation per year. This includes less than 25 hours per year at Standby Power rating.
Prime Power Rating is suitable for unlimited annual hours in variable load application, with a 70% average of the rating within any 24-hour period. The total operating time at 100% Prime Power should not exceed 500 hours per year. Additionally, a 10% overload capability is allowed for up to 1 hour within a 12-hour period, but the total operating time at this overload should not surpass 25 hours per year.

◎ GENERAL ENGINE DATA

► Emission Level	3C100LWEG-U, 3C100LWEG-U1 : Tier-4 NTE
► Engine Type	3-Cylinder, 4-Cycle, In-line, Diesel, Water cooled, N/A
► Bore x Stroke	Ø75 x 76 mm
► Displacement	1.007 liters
► Compression Ratio	21:1
► Combustor Type	In-Direct Injection(Swirl Chamber)
► Rotation	Counter clockwise viewed from Flywheel
► Dimension (L x W x H)	554.9 x 484.4 x 552.8 mm
► Dry Weight	100kg (with Fan)
► Aspiration	N/A
► Governor Type	**Electric Control (ECU)**
► Injection timing	- U1/-E1(14˚ BTDC), -U/E(20˚ BTDC)
► Alternator Capacity	12V-75A
► Firing order	1-2-3
► Flywheel housing	SAE NO.5
► Flywheel	Clutch No. 7-1/2

Specifications are subject to change without prior notice
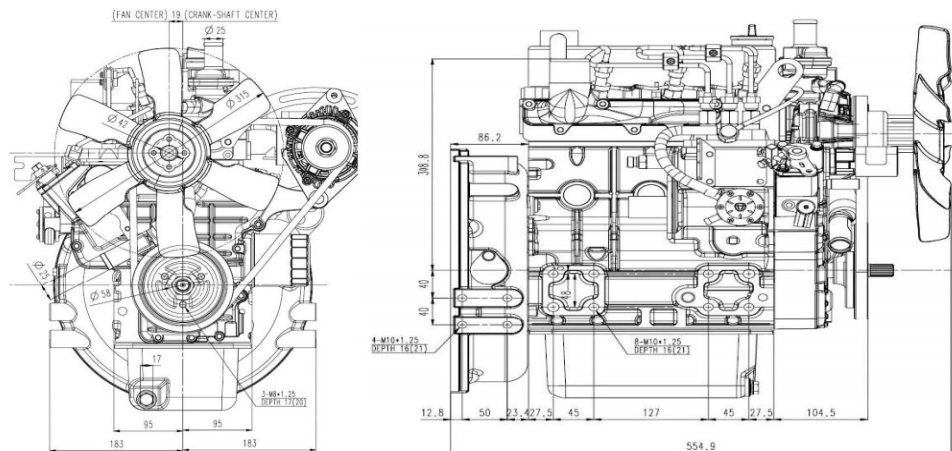
■ CONVERSON TABLE

Power
hp = Kw x 1.3405
kW = hp x 0.7459
kW = [torque(Nm) x rpm]/9549
hp = [torque(lb-ft) x rpm] /5252

Torque
Nm = (9549 x Kw)/rpm
Nm = 1.3558 x lb-ft
lb-ft =(5252 x hp)/rpm
lb-ft = 0.73756 x Nm

U.G gal = lit. x 0.264
kW = 0.2388 kcal/s
Ib/PS.h = g/Kw.h x 0.00162
cfm = m3/min x 35.336

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Designation	Length(L)	Width(W)	Height(H)	Dry weight
Value	554.9 mm	484.4mm	552.8mm	100kg

Revised on DEC 3, 2023

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