

4E38TG/F Series Engines(G-Drive) technical parameters

NO	Items	Technical Parameters			
		4E38TG3/F	4E38TG2/F	4E38TG1/F	4E38TG0/F
1	Engine Model	4E38TG3/F	4E38TG2/F	4E38TG1/F	4E38TG0/F
2	Engine Type	Vertical, In line, 4 stroke, water cooled			
3	Induction System	Turbo			
4	Combustion Chamber	DI / ω shape			
5	Cylinder NO. - Bore \times Stroke(mm)	4-102 \times 115			
6	Valve NO. per cylinder	2			
7	Displacement (L)	3.8			
8	Compression ratio	17.5:1			
9	Dry Weight (kg)	320 (include Radiator, air filter)			
10	Dimensions (LxWxH) mm	1163 \times 888 \times 715 (With Radiator, air filter)			
11	Lubricating system	Splash and pressure			
12	Cooling system	Forced water cooling closed cycle			
13	Start method	Electronic start			
14	Speed governor type	E-Governor			
15	Fuel System	Weifu inline pump + E-Governor			
16	Oil capacity(L)	7L (subject to the actual charge amount)			
17	Firing order	1—3—4—2			
18	Direction of rotation	Anticlockwise (Facing the flywheel)			
19	Prime Power(kW)/speed(r/min)	50/1500	55/1800	60/1500	65/1800
20	Standby Power(kW)/speed(r/min)	55/1500	60.5/1800	66/1500	71.5/1800
21	Min. fuel consumption (g/kw·h)	\leq 235			
22	Oil Consumption(g/kw·h)	\leq 0.2			
23	Fuel type	Summer: a product 0#, 10#, light diesel fuel			
		Winter: a product 0#,-10# -20#,-35# light diesel fuel			
24	Oil type	Summer:15W/40CF Winter:0W/30CF			
25	Speed drop level	GB/T 2820(ISO 8528) G2			
26	Maximum allowable inlet resistance (kPa)	5			
27	Maximum allowable exhaust pressure(kPa)	10			
28	Smoke intensity of standard operating condition FSN	\leq 2			
29	Noise Limit Lp dB(A) (bared engine)(1M)	\leq 102			
30	Starter Power kW	3.5			
31	Alternator Power kW	0.75			
32	System voltage V	12V			
33	Battery Type	A 120Ah cryogenic battery is recommended for cold areas where temp below-5 $^{\circ}$ C			
34	Emitting level	Non Regulated			
35	Ambient Temperature	-30 \sim 50 $^{\circ}$ C (need add heater when temp \leq -10 $^{\circ}$ C)			
36	Altitude high range at run area	Recommend to use it at below altitude 2000m, Power correction is required when altitude exceed 2000m.			