

**4TNV98-GGE**

for **30kVA Generator**

**SPECIFICATIONS & DRAWINGS FOR MASS PRODUCTION**

**10.Mar.2003**



***YANMAR CO.,LTD.***

# Contents

G3-29946-0020

Drawing No.	Part No.	Name	Qty.	Remarks
B3-29936-0010		Out line		
E3-29906-0010		Wiring Diagram		
Z3-29915-0500		Detail of Flywheel		
		LOOSE PARTS		
	129930-13200	GASKET, SILENCER	1	
	119225-52102	PUMP, FUEL FEED	1	
	119802-55700	SEPARATOR ASSY	1	
	119643-66900	DIODE	1	
	119650-77910	RELAY ASSY, GLOW	1	
	128300-77920	TIMER, GLOW PLUG	1	
	129211-77920	TIMER, SECTION 1	1	

**Note :**    ① Since the durability of electric parts basically apply to R2 level of JIS D0203, please inform  
                   ② Electric parts should not mounted on the engine directly (relay, timer etc.) must be kept fr  
 Regarding the vibration of the electrical components, these vibration level m

Engine Development Dept.

Manager

Sec. Manager

	QTY				
Customer					
Branch					
Exp. Dept.					
Copy					
Total					

Checked \_\_\_\_\_

Drawn  
K.Yokoi

Messrs : YD General

W.No.

4TNV98-GGE

**ENGINE SPECIFICATIONS**

G3-29946-0020

No	Model name		4TNV98-GGE		Remarks			
1	Type		4 cycle, Inline, Water-cooled Diesel					
2	No. of cylinders-Bore×stroke		mm	4-φ98×110				
3	Combustion system		Direct Injection					
4	Compression ratio		18.5					
5	Displacement		litter	3.319				
6	Rated output		kW(PS)	34.1(46.4)/40.8(55.5)				
			min <sup>-1</sup>	1500/1800				
7	Continuous rating		kW(PS)	30.7(41.7)/36.4(49.5)				
			min <sup>-1</sup>	1500/1800				
8	Max. torque		N·m	~				
			min <sup>-1</sup>	(+/-)				
9	Specific fuel consumption		g/kW-h(g/PS-h)	231(170)	at rated output			
10	Ambient condition		25°C, 750mmHg, 30%					
11	Engine speed at no load		Max.	min <sup>-1</sup>	1925	+25/-25		
			Min.	min <sup>-1</sup>	1200	+/-		
12	Governorability		Governor type		centrifugal-all speed governor			
			Temporary	%	max.10		load 100% ↓ 0%	
			Permanent	%	max.5			
			Recovery time	sec	max.5			
			Stability	rev	max.15			
Gradients	Longitudinal	deg	30(25)		intermittent			
		Lateral	deg	30(25)		( ) : continuous		
14	Firing order		1-3-4-2-1		order from F.W.			
15	Direction of rotation		counterclockwise		viewed from F.W.			
16	Engine dry weight		kg	approx.248				
17	Fuel injection timing		deg	10.5(+/-)	FIT b.T.D.C			
18	Fuel system		Fuel type		Diesel oil			
			Fuel injection pump		Distributor type (YPD-MP4), Yanmar made			
			Fuel injection nozzle		hole type			
			Fuel filter		paper element			
19	Lubrication system		System		forced feed			
			Oil grade		SAE class CD, IPE grade 10W30			
			Oil pump		trochoid pump			
			Oil filter		paper element			
			Oil capacity		litter	10.5		max.
					litter	5.5		effective.
			Oil pressure		kgf/cm <sup>2</sup>	3.4		at rated output
kgf/cm <sup>2</sup>	0				at low idle			
20	Cooling system		Heat exchanger		none			
			Pressure cap		kgf/cm <sup>2</sup>	0.9		

	Fan		6-φ430	
	Coolant capacity	liter	4.2	

4TNV98-GGE

<b>ENGINE SPECIFICATIONS</b>	<b>G3-29946-0020</b>
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No	Model name	4TNV98-GGE		Remarks
21	Air cleaner		NONE	
22	Breather system		CLOSE	
23	Muffler		NONE	
24	Starting system	Starter	12V-2.3kW	
		Battery	95D31	
		Starting aid	air heater 500W	
25	Generator		12V-40A	
26	Engine color		Silver	
27	Applied regulation		EPA ,ARB-OR	

<Carrier>

Messrs : YD General	W.No.	4TNV98-GGE
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