

## Yanmar TNV Series Specifications (4 CYL)

- 13.3 to 83.5 HP Output Range
- Compact, In-line design
- Proven direct injection technology
- EPA Tier 2, EC URB compliant
- Reduced noise and vibration output
- Tested most durable in class
- Fuel efficient operation
- Unsurpassed startability



Model	4TNV88	4TNV84T	4TNV98	4TNV98T
# of Cylinders	4	4	4	4
Aspiration	NA	T	NA	T
Fuel Type	Diesel	Diesel	Diesel	Diesel
Combustion Type	DI	DI	DI	DI
Displacement (L)	2.19	1.995	3.318	3.318
Cyl. Bore X Stroke (mm)	88x90	84x90	98x110	98x110
Valves per Cylinder	2	4	4	4
Compression Ratio	19.1:1	18.9:1	18.5:1	18.1:1
Direction of Rotation (from flywheel)	CC	CC	CC	CC
Cooling System	Radiator	Radiator	Radiator	Radiator
Coolant Capacity, Engine (liter)	2.7	3.2	4.2	4.2
Lubrication System (Forced)	By trochoid pump	By trochoid pump	By trochoid pump	By trochoid pump
Lube Oil Capacity, Total (liters)	7.4	7.4	10.5	10.5
Starter Motor, Standard	12V	12V	12V	12V
Alternator, Standard	12V40A	12V40A	12V40A	12V40A
Electric Stop Solenoid, ETR	Std	Std	Std	Std
Air Heater, starting aid	12V400W	12V400W	12V400W	12V400W
<b>Industrial Output Ratings</b>				
Rated Speed (rpm)	3,000	3,000	2,500	2,500
Net Intermittant HP	47.5	55.2	67.7	83.5

Net Continuous HP	42.8	49.7	60.9	75.2
Net Max Torque (ft-lb/rpm)	104.1@1,200	118.2@1600	183.7@1,000	228.4@1,800
High Idle Speed (rpm)	3,210	3,210	2,700	2,700
Low Idle Speed (rpm)	1,000	1,000	1,000	1,000
BSFC @ Net Int. Output (lb/hp-hr)	0.41	0.42	0.39	0.40
<b>Generator Drive Output Ratings</b>				
Net Int. HP @ 1,800 rpm	29	35.9	54.7	67.2
Net Cont. HP @ 1,800 rpm	26.3	32.5	48.8	60.8
BSFC @ Net Int. Output (lb/hp-hr)	0.40	0.39	0.38	0.39
Net Int. HP @ 1,500 rpm	23.6	28.1	45.6	55.5
Net Cont. HP @ 1,500 rpm	22	24.9	41.1	50.5

<b>TNV SERIES DIMENSIONS (4 CYL)</b>												
Model	4TNV88				4TNV84T				4TNV98			4TNV98T
	-SA	-SA2	-SA3	-GGE	-SA	-SA2	-SA3	-GGE	-SA	-GGE	-SA	-GGE
L (in.)	28.39	26.65	26.34	27.17	28.39	26.65	26.34	27.17	29.76	31.06	29.76	31.06
W (in.)	20.20	2.20	20.20	20.20	20.47	20.47	20.47	20.47	21.85	21.85	21.85	21.85
H (in.)	25.47	25.47	25.47	25.47	27.95	27.95	27.95	27.95	32.95	32.95	32.95	32.95
Dry wt. (lbs.)	434	410	395	439	445	421	406	450	581	584	603	606
F/W (SAE)	7.5"	7.5"	7.5"	7.5"	7.5"	7.5"	7.5"	7.5"	10"	11.5"	10"	11.5"
F/W Hsg (SAE)	5	Semi 5	Backplate	Semi 4	5	Semi 5	Backplate	Semi 4	4	3	4	3
"A" Hsg depth	4.88	3.15	2.83	4.13	4.88	3.15	2.83	4.13	6.22	4.92	6.22	4.95
"B" F/W	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	11.625	13.125	11.625	13.125

bolt circle dia.												
"C"	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	12.36	13.87	12.36	13.87
"D"	11.41	11.81	11.81	13.19	11.41	11.81	11.81	13.19	13.82	15.55	13.82	15.55
"E" F/W depth	3.97	3.15	1.87	2.28	3.97	3.15	1.87	2.28	3.27	2.53	3.27	2.53
"F"	.90	.90	2.83	.90	.90	.90	2.83	.90	1.83	1.27	1.83	1.27
"G" Hsg. bolt circle dia.	13.125	13.125	NA	15.00	13.125	13.125	NA	15.00	15.00	16.87	15.00	16.87
"H"	14.17	14.17	NA	15.35	14.17	14.17	NA	15.35	16.53	18.50	16.53	18.50
<b>Auxiliary Hydraulic Pump Drive</b>												
Aux. Pto Mount	"A"	"A"	"A"	NA	"A"	"A"	"A"	NA	"A"	"A"	"A"	NA
Aux. PTO Drive	9 T	9 T	9 T	NA	9 T	9 T	9 T	NA	9 T	9 T	9 T	NA