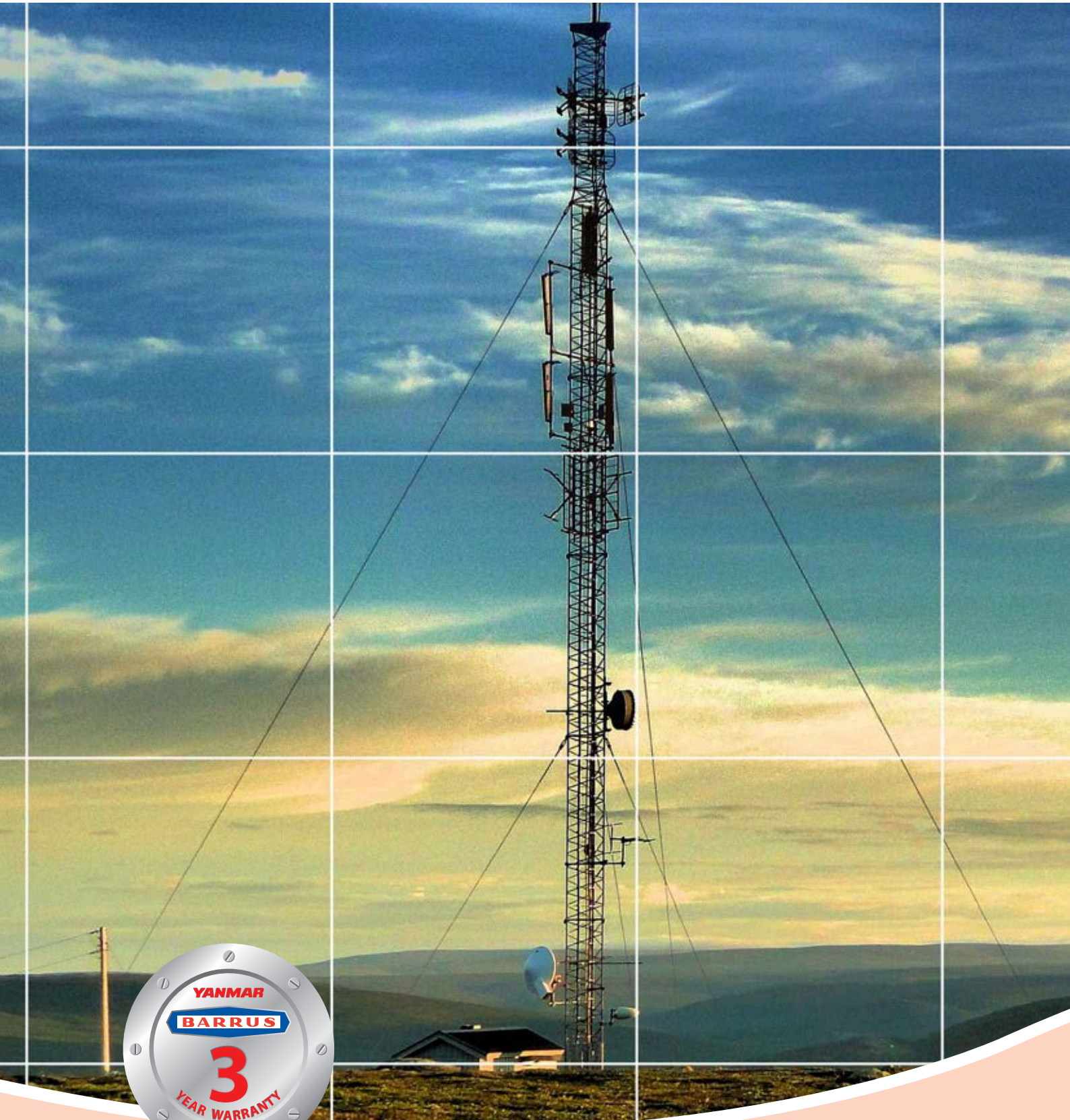


YANMAR

TNV / TNM Power Packs

WATER-COOLED DIESEL ENGINES

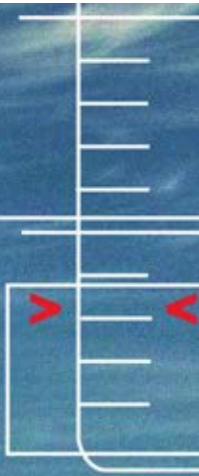


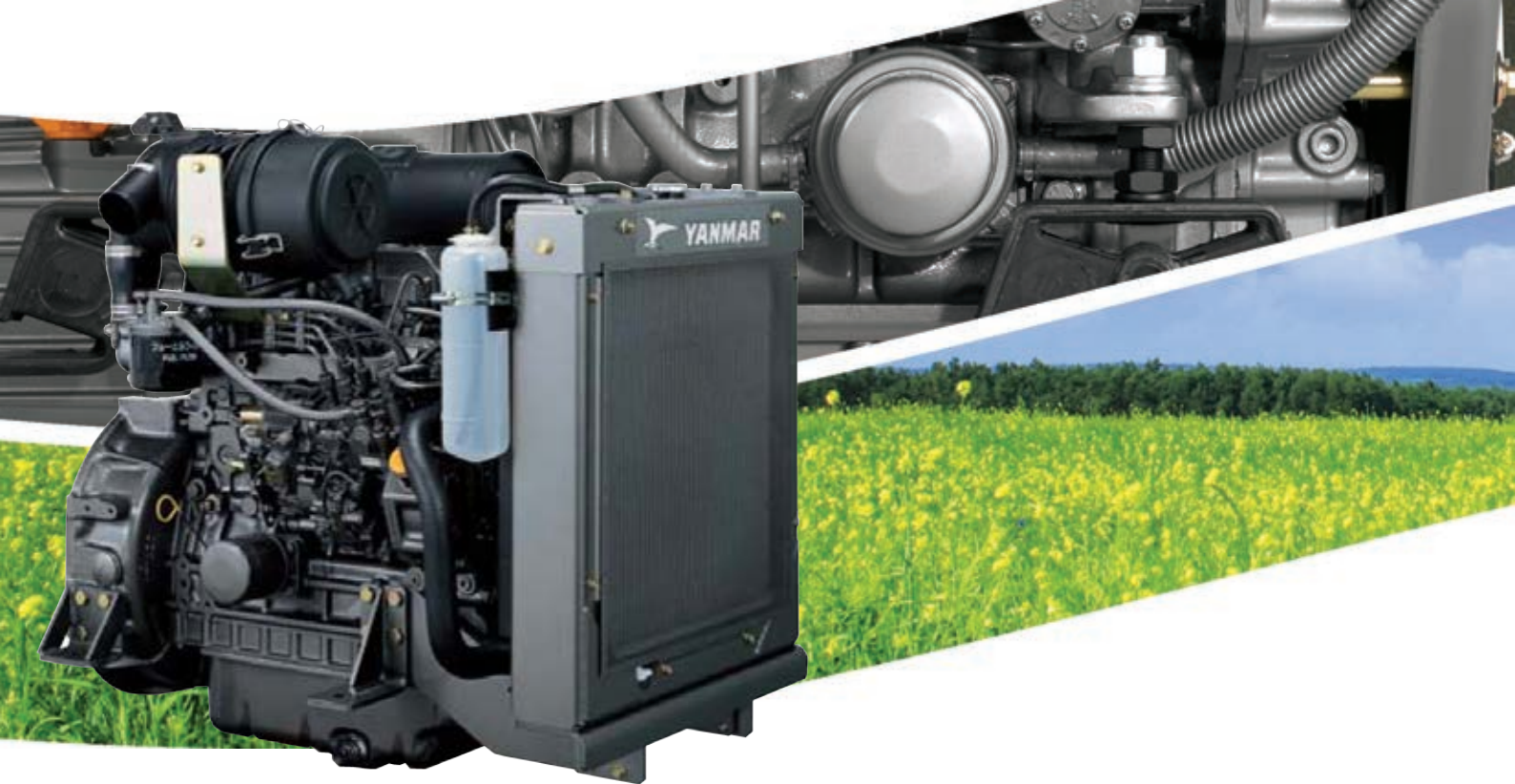
3TNM68/72

3TNV70/76/88

4TNV88/98

Rated Output : 6.1 - 61.7 kW





THE WIDE OUTPUT LINEUP OF TNV / TNM POWER PACKS

ENGINE SPEC SELECTION CODE

Power Pack Group		Application		3TNM68	3TNM72	3TNV70	3TNV76
Group A	Induspack	General industrial use		-AS	-AS	-	-CS
	Genepack A	Generator use (open type)	2-pole	-HA	-HA	-	-
			4-pole	-GA	-GA	-	-GA
Group B	Genepack B	Generator use (enclosed type)	2-pole	-	-	-HB	-HB
			4-pole	-	-	-	-GB

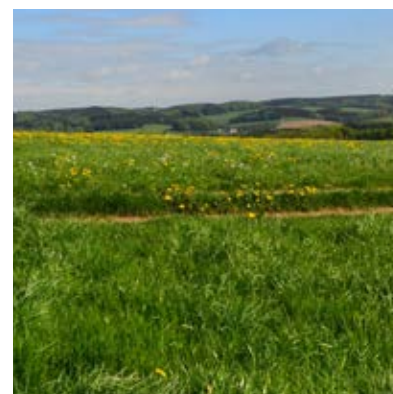
Power Pack Group		Application		3TNV88(-B)	4TNV88(-B)	4TNV98(-Z)	4TNV98T(-Z)
Group A	Induspack	General industrial use		-DS	-DS	-NS	-NS
	Genepack A	Generator use (open type)	2-pole	-	-	-	-
			4-pole	-GA	-GA	-GA	-GA
Group B	Genepack B	Generator use (enclosed type)	2-pole	-	-	-	-
			4-pole	-GB	-GB	-GB	-GB

SPECIFICATIONS

Model	3TNM68	3TNM72	3TNV70	3TNV76	3TNV88(-B)	4TNV88(-B)	4TNV98(-Z)	4TNV98(-Z)
Type	Vertical 4-cylinder water cooled diesel engine							
Combustion	Indirect injection				Direct injection			
Aspiration	Naturally aspirated							Turbocharged
No. of Cylinders	3				4			
Cyl. Bore x Stroke (mm)	68 x 72	72 x 74	70 x 74	76 x 82	88 x 90		98 x 110	
Displacement (cc)	784	904	854	1116	1642	2190	3319	
Direction of Rotation	Anti-clockwise							
Cooling System	Radiator							
Lubrication System	Forced lubrication by trochoid pump							
Starting System	Starting motor (D.C. 12V)							

OUTPUT

Industrial use (Induspack)	Model	3TNM68	3TNM72	3TNV76	3TNV88(-B)	4TNV88(-B)	4TNV98-Z	4TNV98T-Z
	Code	-AS	-AS	-CS	-DS	-DS	-NS	-NS
Rated output [kW / min ⁻¹]		14.1 / 3600	17.1 / 3600	18.7 / 3200	26.8 / 3000	35.4 / 3000	50.7 / 2500	61.7 / 2500



OUTPUT

Model				3TNM68	3TNM68	3TNM72	3TNM72	3TNV70	3TNV76	
Code				-HA	-GA	-HA	-GA	-HB	-HB	
Generator use (Genepack)	No. of poles	50 or 60Hz	Rating							
			for 50Hz @ 3000 min ⁻¹	Prime Power	10.9	-	13.0	-	12.1	15.1
	2-pole	for 60Hz @ 3600 min ⁻¹	Rated Power	12.0	-	14.3	-	13.3	16.6	
			Prime Power	12.9	-	15.1	-	14.5	17.7	
	4-pole	for 50Hz @ 1500 min ⁻¹	Rated Power	14.2	-	16.6	-	16.0	19.5	
			Prime Power	-	5.5	-	6.6	-	-	
	4-pole	for 60Hz @ 1800 min ⁻¹	Rated Power	-	6.1	-	7.3	-	-	
			Prime Power	-	6.6	-	7.8	-	-	
	4-pole	for 60Hz @ 1800 min ⁻¹	Rated Power	-	7.3	-	8.6	-	-	
			Prime Power	11.2	-	13.3	-	12.4	16.0	
	Applicable Generator Capacity [kVA]	2-pole	for 50Hz @ 3000 min ⁻¹	Rated Power	12.3	-	14.8	-	13.6	17.1
				Prime Power	13.2	-	15.7	-	15.0	18.4
2-pole		for 60Hz @ 3600 min ⁻¹	Rated Power	14.7	-	17.2	-	16.6	20.2	
			Prime Power	14.7	-	17.2	-	16.6	20.2	
4-pole		for 50Hz @ 1500 min ⁻¹	Rated Power	-	5.3	-	6.6	-	-	
			Prime Power	-	5.9	-	7.5	-	-	
4-pole		for 60Hz @ 1800 min ⁻¹	Rated Power	-	6.6	-	8.0	-	-	
			Prime Power	-	7.5	-	8.8	-	-	

Model				3TNV76	3TNV88(-B)	4TNV88(-B)	4TNV98	4TNV98T	
Code				-GA, GB	-GA, GB	-GA, GB	-GA, GB	-GA, GB	
Generator use (Genepack)	No. of poles	50 or 60Hz	Rating						
			for 50Hz @ 3000 min ⁻¹	Prime Power	-	-	-	-	-
	2-pole	for 60Hz @ 3600 min ⁻¹	Rated Power	-	-	-	-	-	
			Prime Power	-	-	-	-	-	
	4-pole	for 50Hz @ 1500 min ⁻¹	Rated Power	8.2	12.2	16.4	30.7	37.7	
			Prime Power	9.0	13.2	18.0	34.1	41.4	
	4-pole	for 60Hz @ 1800 min ⁻¹	Rated Power	9.8	14.7	19.6	36.4	45.3	
			Prime Power	10.7	16.2	21.6	40.8	50.1	
	Applicable Generator Capacity [kVA]	2-pole	for 50Hz @ 3000 min ⁻¹	Rated Power	-	-	-	-	-
				Prime Power	-	-	-	-	-
		2-pole	for 60Hz @ 3600 min ⁻¹	Rated Power	-	-	-	-	-
				Prime Power	-	-	-	-	-
4-pole		for 50Hz @ 1500 min ⁻¹	Rated Power	8.4	12.6	17.0	33.2	41.2	
			Prime Power	9.2	13.5	18.7	36.7	45.0	
4-pole		for 60Hz @ 1800 min ⁻¹	Rated Power	10.0	15.4	20.6	40.0	50.0	
			Prime Power	11.0	16.8	22.7	44.4	55.0	

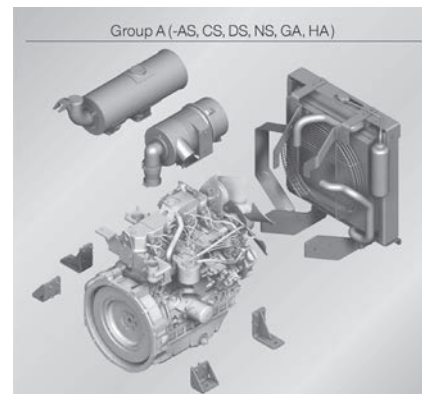
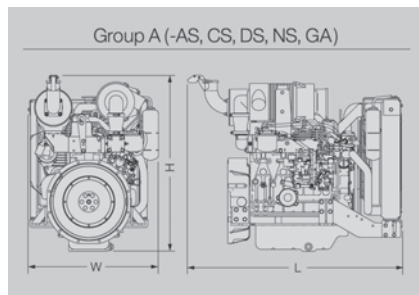
DIMENSIONS

GENEPACK A (-GA, HA)

Model	3TNM68	3TNM72	3TNV76	3TNV88	4TNV88	4TNV98	4TNV98T
Code	-GA, -HA	-GA, -HA	-GA	-(B)GA	-(B)GA	-GA	-GA
Length (mm)	751	722	745	821	1002	1041	938
Width (mm)	474	464	518	609	609	703	703
Height (mm)	668	683	696	792	824	926	925
Weight (kg)	132	138	158	180	210	280	284

INDUSPACK (-AS, CS, DS, NS)

Model	3TNM68	3TNM72	3TNV76	3TNV88	4TNV88	4TNV98	4TNV98T
Code	-AS	-AS	-CS	-(B)DS	-(B)DS	-ZNS	-ZNS
Length (mm)	751	722	814	821	1002	1042	936
Width (mm)	474	464	514	609	609	701	701
Height (mm)	668	683	696	792	824	967	967
Weight (kg)	132	138	158	181	211	280	284



GENEPACK B (-GB, HA)

Model	3TNV70	3TNV76	3TNV76	3TNV88	4TNV88	4TNV98	4TNV98T
Code	-HB	-GB	-HB	-(B)GB	-(B)GB	-GB	-GB
Length (mm)	798	814	814	875	1002	1155	1154
Width (mm)	518	518	518	609	609	703	703
Height (mm)	683	672	694	731	726	846	846
Weight (kg)	143	153	153	175	202	271	276

