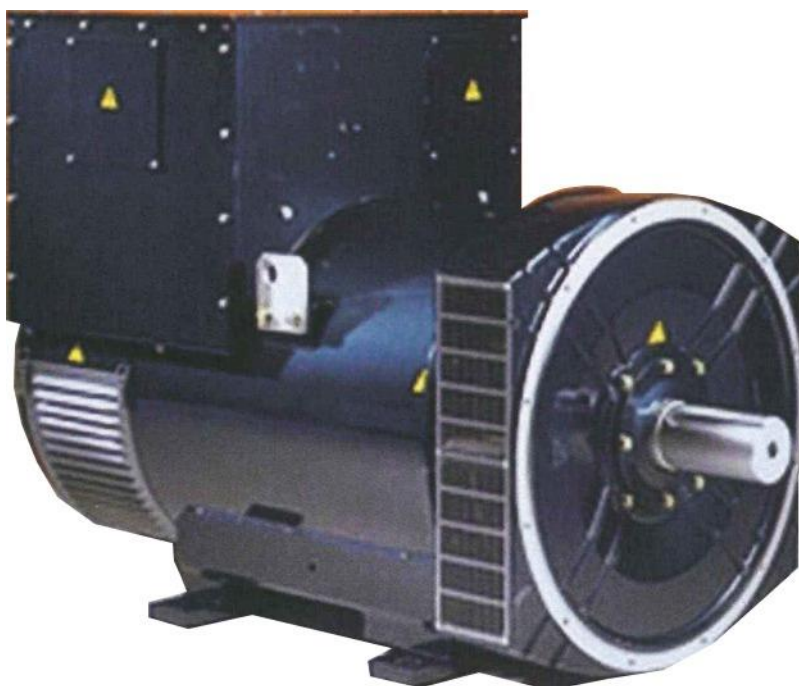




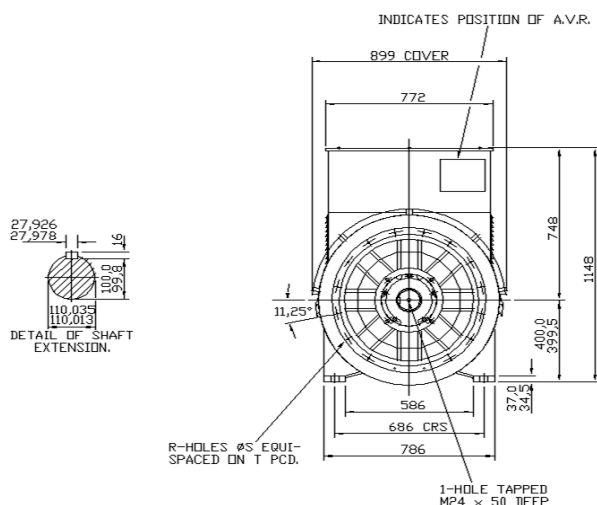
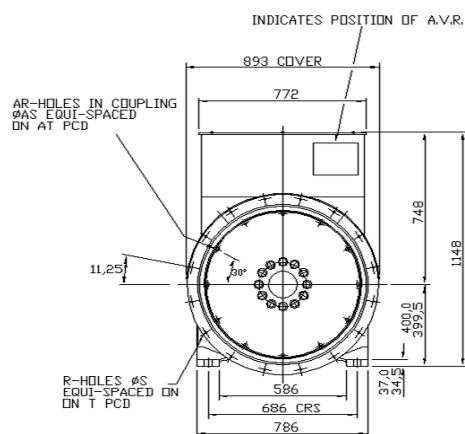
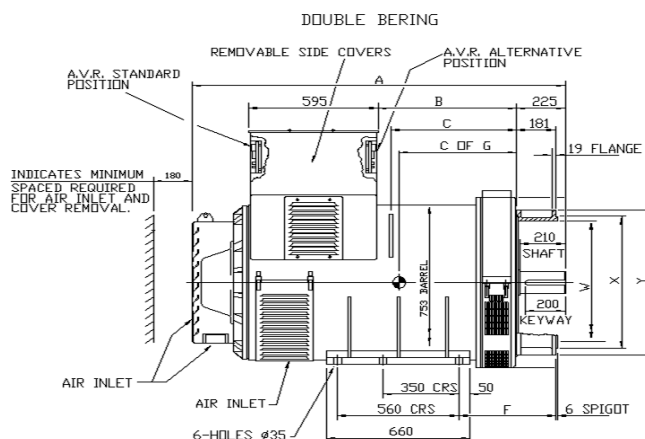
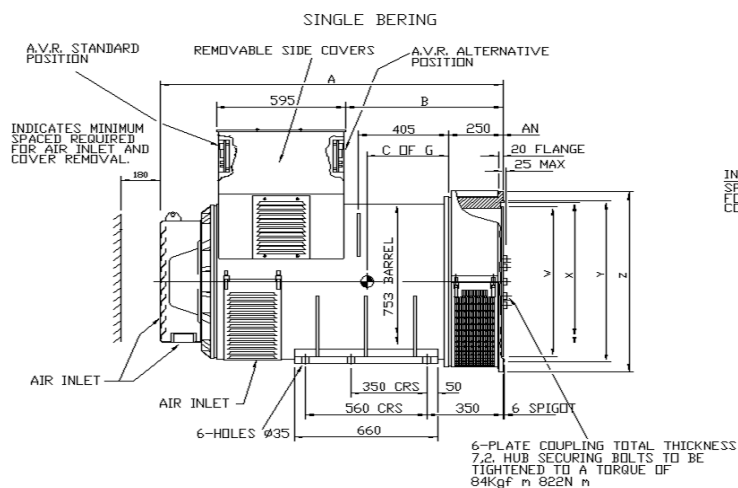
DG 6



maximizing your energy.
Try the best!

DG6		3 Phase H insulation Industrial						
Voltage		50 Hz 1500rpm			60 Hz 1800rpm			
Series Star		380	400	415	416	440	460	480
Parallel Star		190	200	208	208	220	230	240
Series Delta		220	230	240	240	254	266	277
DG 634B	kVA	750	750	750	810	855	895	938
	kW	568	600	600	648	648	716	750.4
	Efficiency (%)	93.2	93.2	93.5	93	93.1	93.2	93.3
	Power input (KW)	609	643	642	670	735	768	804
DG 634C	kVA	760	800	800	865	916	958	1000
	kW	608	640	640	692	732.8	766.4	800
	Efficiency (%)	93.6	93.65	93.8	93.4	93.5	93.6	93.7
	Power input (KW)	650	683	682	741	784	819	854
DG 634D	kVA	865	910	910	986	1043	1090	1138
	kW	692	728	728	788.8	834.4	872	910.4
	Efficiency (%)	93.5	93.55	93.8	93.3	93.4	93.5	93.6
	Power input (KW)	740	778	776	845	893	933	973
DG 634E	kVA	950	1000	1000	1083	1145	1197	1250
	kW	760	800	800	866.4	916	957.6	1000
	Efficiency (%)	94.2	94.25	94.4	94.1	94.2	94.25	94.3
	Power input (KW)	807	849	847	921	972	1016	1060
DG 634F	kVA	1090	1130	1130	1204	1274	1332	1390
	kW	872	904	904	963.2	1019.2	1065.6	1112
	Efficiency (%)	94.6	94.66	94.8	94.6	94.7	94.7	94.8
	Power input (KW)	922	955	954	1018	1076	1125	1173
DG 634G	kVA	1190	1250	1250	1310	1386	1449	1513
	kW	952	1000	1000	1048	1108.8	1159.2	1210.4
	Efficiency (%)	94.8	94.88	95	94.9	94.9	95	95
	Power input (KW)	1004	1054	1053	1104	1168	1220	1274

DG6		3 Phase F insulation Marine						
Voltage		50 Hz 1500rpm			60 Hz 1800rpm			
Series Star		380	400	415	416	440	460	480
Parallel Star		190	200	208	208	220	230	240
Series Delta		220	230	240	240	254	266	277
DG 634B	kVA	630	665	665	720	755	800	825
	kW	504	532	532	567	604	640	660
	Efficiency (%)	93.6	93.7	93.9	93.4	93.5	93.6	93.7
	Power input (KW)	538	568	567	617	646	648	704
DG 634C	kVA	675	710	710	770	815	850	890
	kW	540	568	568	616	652	680	712
	Efficiency (%)	93.9	94.05	94.2	93.7	93.8	93.9	94
	Power input (KW)	575	604	603	657	695	724	757
DG 634D	kVA	770	810	810	880	930	970	1015
	kW	616	648	648	704	744	776	812
	Efficiency (%)	93.9	94	94.2	93.7	93.8	93.9	94
	Power input (KW)	656	689	688	751	793	826	863
DG 634E	kVA	845	890	890	965	1020	1070	1125
	kW	676	712	712	772	816	856	900
	Efficiency (%)	94.6	94.6	94.7	94.4	94.5	94.55	94.6
	Power input (KW)	715	753	752	818	863	905	951
DG 634F	kVA	960	1010	1010	1075	1135	1190	1250
	kW	768	808	808	860	908	952	1000
	Efficiency (%)	94.9	95	95.1	94.8	94.9	95	95
	Power input (KW)	809	850	850	907	957	1002	1053
DG 634G	kVA	1060	1115	1115	1170	1215	1300	1350
	kW	848	892	892	936	972	1040	1080
	Efficiency (%)	95.1	95.1	95.2	95.1	95.15	95.2	95.2
	Power input (KW)	892	938	937	984	1022	1092	1134



SINGLE BEARING DIMENSIONS				
Code	A	B	C	C of G
DG 634B	1578	726	405	587
DG 634C	1578	726	405	591
DG 634D	1578	726	405	597
DG 634E	1578	726	405	607
DG 634F	1578	726	405	625
DG 634G	1679	826	464	735

DOUBLE BEARING DIMENSIONS					
Code	A	B	C	F	C of G
DG 634A	1718	640	570	446	587
DG 634B	1718	640	570	446	591
DG 634C	1718	640	570	446	597
DG 634D	1718	640	570	446	607
DG 634E	1718	640	570	446	625
DG 634F	1904	826	716	531	753

DISC COUPLING							
S.A.E.No.	X	Y	Z	N	R	S	T
00	772	787.3	883	16	16	14	851.0
0	632	647	810	16	16	14	679.5
0.5	559	584.1	810	16	16	14	619.1

DISC COUPLING						
S.A.E.No.	W	X	Y	R	S	T
00	768	787.3	882	16	14	851.0
0	621	647.6	711	16	14	679.5
0.5	568	584.1	648	12	14	619.1

FLANGE ADAPTOR					
S.A.E.No.	W	AN	AR	AS	AT
24	733.3	0	12	20.7	692
21	673.02	0	12	16.7	641.3
18	571.42	15.87	6	16.7	543.0
14	466.64	25.4	8	13.5	438.1

FLANGE ADAPTOR				
S.A.E.No.	M	N	O	P
BCDEF	27.978	110.035	100.0	16
	27.926	110.013	99.8	
G	31.974	125.040	114.0	18
	31.912	125.015	113.8	

SINGLE BEARING SHIPPING DETAILS			
Code	Net weight Kg	Gross weight Kg	Packing
DG 634B	1950	2020	180X100X145
DG 634C	1970	2040	180X100X145
DG 634D	2030	2100	180X100X145
DG 634E	2190	2260	180X100X145
DG 634F	2420	2490	180X100X145
DG 634G	2750	2820	180X100X145

DOUBLE BEARING SHIPPING DETAILS			
Code	Net weight Kg	Gross weight Kg	Packing
DG 634A	1960	2030	200X105X145
DG 634B	1980	2050	200X105X145
DG 634C	2040	2110	200X105X145
DG 634D	2210	2280	200X105X145
DG 634E	2430	2500	200X105X145
DG 634F	2760	2830	200X105X145

MAIN CHARACTERISTIC DESCRIPTION

GENERAL

Alternator full range covers ratings from 5kVA to 1386kVA, so meeting the most part of needs for industrial, marine, commercial, construction, mining and telecommunications, both for prime or standby power generation.

ALTERNATOR CONSTRUCTURE

Ac generators are self-excited, self-regulated, and supplied with regulator and inbuilt booster.

COMPLIANCE WITH STANDARDS

The generators are designed in compliance with IEC60034-1/60034-2, BS4990 & 5000, VDE0530, NEMA MG1-2006, CSA C/UL. Certificate ISO 2000, CE conform to the requirements of IEC60034, certificate no. No. 01157 by NQA Certification Co., Ltd.

MECHANICAL FEATURES

The generators are available in either single-bearing or double-bearing.

Single-bearing construction has international general SAE flange adaptors and SAE disc couplings. It ensures the alignment during the assembly operation of generator to the engine.

Double-bearing construction has IMB34 standard forms. It has all SAE adaptors for option. Special constructions on request.

Double bearing alternators are balanced with 1/2 key.

All alternators can operate in both directions: clockwise and counterclockwise.

ELECTRICAL FEATURES

OVERLOADS & SHORT CIRCUIT CURRENT

Followings overloads are allowed:

10% for 1 hour

14% for 15 minutes

25% for 5 minutes

50% for 2 minutes

With the addition of an optional Permanent Magnet, alternators can sustain 300% short circuit current for 10 seconds.

UNBALANCED LOAD

The alternators permit an unbalanced load of 25% rated current. The deviation of line voltage is less than 5%.

INSULATION

The insulation system is class 'H'

Vacuum pressure Impregnation

Windings and Electrical Performance

Generator stator is wound to 2/3 pitch. This eliminates triplen (3rd, 9th, 15th...) harmonics on the voltage waveform and is found to be the optimum design for trouble-free supply of non-linear loads.

TELEPHONE INTERFERENCE

TIF (as defined by BS4999 Part 40) is better than 2%. TIF (as defined by ASAC50.12) is better than 50.

RADIO INTERFERENCE

The alternators are supplied with interference suppression grade N to VDE 0875.

DAMPER WINDING

This arrangement provides the alternator with excellent damping against torsional vibrations that occurs during changes in load and when running in parallel.

ACCESSORIES & OPTION

Droop kit for sharing of reactive current during parallel operation

- Remote voltage potentiometer
- PT100 thermal protection embedded in stator windings
- Anti condensation heaters
- IP23 protection
- Special treatment for damp-saline or corrosive environment
- Permanent Magnet
- Control panel with LCD digital meter

GENERAL NOTES

All ratings are base in 40C° ambient temperature at 1000m altitude.

Site altitude exceeds 1000m above the sea level, (ambient temperature 40C°)

1000 mt. A.s.l.= 100%; 1500 mt. A.s.l.= 97%; 2000 mt. A.s.l.= 94%; 2500 mt. A.s.l.= 91%;

3000 mt. A.s.l.= 87%; 3500 mt. A.s.l.= 82%

Power factor cos. Φ < 0.8

Cos. Φ 0.8~1= 100%; Cos. Φ 0.7= 96%; Cos. Φ 0.6= 92%; Cos. Φ 0.5= 91%; Cos. Φ 0.4= 90%

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