

ENGINE RANGE

OFF-ROAD, STATIONARY AND POWER GENERATION



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POWER GENERATION



13 LITRE SERIES



16 LITRE SERIES

OFF-ROAD AND STATIONARY



8 LITRE SERIES



16 LITRE SERIES

Power generation engines

Stage I / Tier 1

Engine	50 Hz/1500 rpm						60 Hz/1800 rpm						Generator eff. (%)
	Prime power			Standby			Prime power			Standby			
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
TD520GE	75	68	85	83	75	94	77	70	88	85	77	96	91%

Stage II / Tier 2

TAD530GE	76	69	86	83	76	95	77	70	88	85	77	96	91%
TAD531GE	88	80	100	96	88	110	92	83	104	101	92	115	91%
TAD532GE	113	104	130	124	114	143	116	106	133	127	117	146	92%
TAD730GE	113	104	130	124	114	143	116	106	133	127	117	146	92%
TAD731GE	135	124	155	148	136	170	140	129	161	154	142	177	92%
TAD732GE	161	148	185	177	163	203	176	162	202	194	178	223	92%
TAD733GE	177	163	204	195	179	224	195	179	224	214	197	247	92%
TAD734GE	217	200	250	239	220	275	222	204	255	244	224	281	92%
TAD1341GE	275	255	319	302	281	351	294	273	342	324	301	377	93%
TAD1342GE	303	282	352	333	310	387	345	321	401	377	351	438	93%
TAD1343GE	325	302	378	356	331	414	353	328	410	388	361	451	93%
TAD1344GE	354	329	411	389	362	452	392	364	455	431	401	501	93%
TAD1345GE	388	361	451	431	401	501	392	364	455	431	401	501	93%
TAD1640GE	392	368	460	431	405	506	430	404	505	479	450	563	94%
TAD1641GE	430	404	505	473	445	556	485	456	570	546	513	642	94%
TAD1642GE	503	473	591	554	521	651	532	500	625	585	550	687	94%
TWD1643GE	536	504	630	596	560	700	585	550	687	644	605	757	94%

Stage IIIA / Tier 3

Engine	50 Hz/1500 rpm						60 Hz/1800 rpm						Generator eff. (%)
	Prime power			Standby			Prime power			Standby			
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
TAD550GE	77	70	87	85	77	96	85	77	97	93	85	106	91%
TAD551GE	89	81	101	98	89	111	100	91	113	110	100	125	91%
TAD750GE	114	105	131	126	116	144	128	118	148	141	130	162	92%
TAD751GE	133	122	153	146	134	168	150	138	172	165	152	190	92%
TAD752GE	156	144	180	172	158	198	175	161	202	193	178	222	92%
TAD753GE	174	160	200	191	176	220	195	180	224	215	198	247	92%
TAD754GE	218	200	250	239	220	275	220	202	253	242	223	278	92%
TAD1350GE							245	227	284	269	250	313	93%
TAD1351GE	279	259	324	306	285	356	294	273	341	323	300	375	93%
TAD1352GE	314	292	365	345	321	401	344	320	400	376	350	437	93%
TAD1353GE							391	364	454	430	400	500	93%
TAD1354GE	328	305	381	361	336	420	344	320	400	376	350	437	93%
TAD1355GE	355	330	413	390	363	453	344	320	400	376	350	437	93%
TAD1650GE	393	370	462	433	407	508	439	413	516	483	454	568	94%
TAD1651GE	430	404	505	473	445	556	494	464	580	546	513	641	94%
TWD1652GE	505	480	600	557	529	661							95%
TWD1653GE	547	520	650	603	573	716							95%

Tier 4i

TWD1663GE							593	566	708	655	626	782	95,5%
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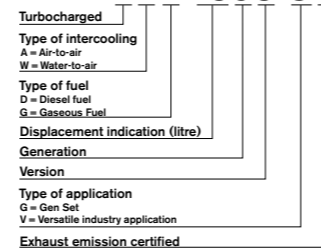
Stage I / Tier 1

Engine	400 Hz / 2000 rpm						Generator eff. (%)
TD720GE	119	109	137	132	121	152	92%

Stage II / Tier 2

TAD731GE	143	132	164	159	146	183	92%
TAD733GE	171	157	197	192	177	221	92%

TAD 1353 GE



Net engine performance acc. to ISO3046, BS5514, DIN6271 and in general SAEJ1349 net power
kWm = kiloWatt mechanical, net with fan
kWe = kiloWatt electrical = kWm x gen. eff.
kVA = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8

Industrial Engines for Off-Road applications 2014

5, 6 & 7 litre range

Engine	Emission level ***	Maximum Power			Peak Torque		Displ. Litres	Length mm	Width mm	Height mm	Dry weight kg
		kW	Hp	rpm	Nm	rpm					
TAD560VE	Stage IIIB / Tier 4i	129	175	2300	682	1380	4.8	936	812	924	500*
TAD660VE	Stage IIIA / Tier 3	147	200	2300	800	1600	5.7	1074	674	991	565
TAD620VE	Stage II / Tier 2	155	211	2500	700	1500	5.7	1050	610	906	510
TAD561VE	Stage IIIB / Tier 4i	155	211	2300	832	1450	4.8	936	812	924	500*
TAD761VE	Stage IIIB / Tier 4i	160	219	2200	1156	1320	7.2	1178	770	998	650*
TAD750VE	Stage IIIA / Tier 3	170	231	2300	952	1500	7.2	1190	697	1036	650
TAD720VE	Stage II / Tier 2	174	237	2300	854	1400	7.2	1172	630	975	680
TAD750VE	Stage IIIA / Tier 3	181	246	2300	1050	1500	7.2	1190	697	1036	650
TAD760VE	Stage IIIA / Tier 3	181	246	2300	1100	1500	7.2	1190	697	1036	650
TAD762VE	Stage IIIB / Tier 4i	185	253	2200	1199	1320	7.2	1178	770	998	650*
TAD721VE	Stage II / Tier 2	195	265	2300	907	1600	7.2	1172	630	975	680
TAD750VE	Stage IIIA / Tier 3	200	272	2300	1050	1500	7.2	1190	697	1036	650
TAD763VE	Stage IIIB / Tier 4i	210	287	2200	1202	1450	7.2	1178	770	998	650*
TAD722VE	Stage II / Tier 2	220	300	2300	1050	1400	7.2	1172	630	975	680
TAD764VE	Stage IIIB / Tier 4i	225	307	2200	1275	1450	7.2	1178	770	998	650*
TAD765VE	Stage IIIB / Tier 4i	235	328	2200	1330	1450	7.2	1178	770	998	650*

5 & 8 litre range

Engine	Emission level ***	Maximum Power			Peak Torque		Displ. Litres	Length mm	Width mm	Height mm	Dry weight kg
		kW	Hp	rpm	Nm	rpm					
TAD540VE	Stage II / Tier 2	105	143	2300	710	1200	5.1	982	864	982	556
TAD550VE	Stage IIIA / Tier 3	105	143	2300	710	1200	5.1	957	809	988	556
TAD570VE	Stage IV / Tier 4f	105	143	2300	710	1200	5.1	982	864	992	556
TAD541VE	Stage II / Tier 2	129	175	2300	810	1200	5.1	982	864	982	556
TAD551VE	Stage IIIA / Tier 3	129	175	2300	810	1200	5.1	957	809	988	556
TAD571VE	Stage IV / Tier 4f	129	175	2300	810	1200	5.1	982	864	992	556
TAD542VE	Stage II / Tier 2	160	218	2300	910	1450	5.1	982	864	982	556
TAD552VE	Stage IIIA / Tier 3	160	218	2300	910	1450	5.1	957	809	988	556
TAD572VE	Stage IV / Tier 4f	160	218	2300	910	1400	5.1	982	864	992	556
TAD840VE	Stage II / Tier 2	160	218	2200	1060	1200	7.7	1207	889	1006	667
TAD850VE	Stage IIIA / Tier 3	160	218	2200	1060	1200	7.7	1217	830	1004	667
TAD870VE	Stage IV / Tier 4f	160	218	2200	1060	1200	7.7	1207	889	1006	696
TAD841VE	Stage II / Tier 2	185	252	2200	1160	1200	7.7	1207	889	1006	667
TAD851VE	Stage IIIA / Tier 3	185	252	2200	1160	1200	7.7	1217	830	1004	667
TAD871VE	Stage IV / Tier 4f	185	252	2200	1160	1200	7.7	1207	889	1006	696
TAD842VE	Stage II / Tier 2	210	286	2200	1237	1350	7.7	1207	889	1006	667
TAD852VE	Stage IIIA / Tier 3	210	286	2200	1237	1350	7.7	1217	830	1004	667
TAD872VE	Stage IV / Tier 4f	210	286	2200	1237	1350	7.7	1207	889	1006	696
TAD843VE	Stage II / Tier 2	235	320	2200	1310	1450	7.7	1207	889	1006	667
TAD853VE	Stage IIIA / Tier 3	235	320	2200	1310	1450	7.7	1217	830	1004	667
TAD873VE	Stage IV / Tier 4f	235	320	2200	1310	1450	7.7	1207	889	1006	696

* wet weight
 ** only to be used at sea level
 *** indication of the emission level

Net engine performance acc. to ISO3046, BS5514, DIN6271 and in general SAEJ1349 net power

kWm = kiloWatt mechanical, net with fan

kWe = kiloWatt electrical = kWm x gen. eff.

kVA = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8

9, 11, 13 & 16 litre range

Engine	Emission level ***	Maximum Power			Peak Torque		Displ. Litres	Length mm	Width mm	Height mm	Dry weight kg
		kW	Hp	rpm	Nm	rpm					
TAD940VE	Stage II / Tier 2	190	258	2100	1251	1000	9.4	1312	902	1130	1015
TAD950VE	Stage IIIA / Tier 3	200	272	1900	1220	1500	9.4	1422	938	1136	1015
TAD941VE	Stage II / Tier 2	220	300	2100	1401	1200	9.4	1312	902	1130	1015
TAD951VE	Stage IIIA / Tier 3	224	305	2100	1703	1200	9.4	1422	938	1136	1015
TAD1140VE	Stage II / Tier 2	235	320	2100	1581	1250	10.8	1309	913	1227	1041
TAD1150VE	Stage IIIA / Tier 3	235	320	2100	1581	1250	10.8	1309	913	1227	1041
TAD1170VE	Stage IV / Tier 4f	235	320	2100	1581	1250	10.8	1309	913	1227	1041
TAD942VE	Stage II / Tier 2	250	340	2100	1617	1400	9.4	1312	902	1130	1015
TAD952VE	Stage IIIA / Tier 3	252	343	1900	1735	1300	9.4	1422	938	1136	1015
TAD1340VE	Stage II / Tier 2	256	348	2100	1790	1260	12.8	1373	870	1207	1325*
TAD1350VE	Stage IIIA / Tier 3	256	348	1900	1780	1260	12.8	1373	870	1207	1325*
TAD1360VE	Stage IIIB / Tier 4i	256	348	1900	1745	1200	12.8	1427	876	1200	1325*
TAD1141VE	Stage II / Tier 2	265	360	2100	1785	1250	10.8	1309	913	1227	1041
TAD1151VE	Stage IIIA / Tier 3	265	360	2100	1785	1250	10.8	1309	913	1227	1041
TAD1171VE	Stage IV / Tier 4f	265	360	2100	1785	1250	10.8	1309	913	1227	1041
TAD1341VE	Stage II / Tier 2	275	374	2100	1905	1260	12.8	1373	870	1207	1325*
TAD943VE	Stage II / Tier 2	280	380	1900	1719	1400	9.4	1312	902	1130	1015
TAD1142VE	Stage II / Tier 2	285	388	1700	1938	1250	10.8	1309	913	1227	1041
TAD1152VE	Stage IIIA / Tier 3	285	388	1700	1938	1250	10.8	1309	913	1227	1041
TAD1172VE**	Stage IV / Tier 4f	285	388	1700	1938	1250	10.8	1309	913	1227	1041
TAD1351VE	Stage IIIA / Tier 3	285	388	1900	1965	1200	12.8	1400	876	1200	1267
TAD1361VE	Stage IIIB / Tier 4i	285	388	1900	1966	1200	12.8	1427	876	1200	1325*
TAD1371VE	Stage IV / Tier 4f	285	388	1900	1965	1200	12.8	1400	876	1200	1267
TAD1342VE	Stage II / Tier 2	310	422	2100	2005	1260	12.8	1373	870	1207	1325*
TAD1352VE	Stage IIIA / Tier 3	315	428	1900	2175	1200	12.8	1400	876	1200	1267
TAD1362VE	Stage IIIB / Tier 4i	315	428	1900	2175	1200	12.8	1427	876	1200	1325*
TAD1372VE	Stage IV / Tier 4f	315	428	1900	2175	1200	12.8	1400	876	1200	1267
TAD1343VE	Stage II / Tier 2	332	452	2100	2143	1260	12.8	1373	870	1207	1325*
TAD1353VE	Stage IIIA / Tier 3	345	470	1900	2380	1200	12.8	1400	876	1200	1267
TAD1363VE	Stage IIIB / Tier 4i	345	469	1900	2380	1200	12.8	1427	876	1200	1325*
TAD1373VE	Stage IV / Tier 4f	345	469	1900	2380	1200	12.8	1400	876	1200	1267
TAD1344VE	Stage II / Tier 2	352	479	2100	2248	1260	12.8	1373	870	1207	1325*
TAD1364VE	Stage IIIB / Tier 4i	375	510	1900	2595	1200	12.8	1427	876	1200	1325*
TAD1374VE	Stage IV / Tier 4f	375	510	1900	2598	1200	12.8	1400	876	1200	1267
TAD1345VE	Stage II / Tier 2	394	536	2100	2325	1260	12.8	1373	870	1207	1325*
TAD1650VE	Stage IIIA / Tier 3	397	540	1800	2551	1400	16.1	1582	868	1320	1425
TAD1365VE	Stage IIIB / Tier 4i	405	551	1900	2650	1200	12.8	1427	876	1200	1325*
TAD1375VE	Stage IV / Tier 4f	405	551	1900	2650	1200	12.8	1400	876	1200	1267
TAD1640VE-B	Stage II / Tier 2	405	551	1900	2760	1200	16.1	1580	899	1311	1440*
TAD1650VE-B	Stage IIIA / Tier 3	405	551	1900	2757	1300	16.1	1490	894	1351	1322
TAD1660VE	Stage IIIB / Tier 4i	405	551	1900	2761	1200	16.1	1582	893	1351	1440*
TAD1670VE	Stage IV / Tier 4f	405	551	1900	2757	1300	16.1	1490	894	1351	1322
TAD1641VE-B	Stage II / Tier 2	450	612	1800	2910	1200	16.1	1580	899	1311	1440*
TAD1651VE	Stage IIIA / Tier 3	450	612	1900	2897	1300	16.1	1490	894	1351	1322
TAD1671VE	Stage IV / Tier 4f	450	612	1900	2897	1300	16.1	1490	894	1351	1322
TAD1642VE-B	Stage II / Tier 2	515	700	1800	3220	1200	16.1	1580	899	1311	1440*
TAD1662VE	Stage IIIB / Tier 4i	515	700	1800	3220	1200	16.1	1582	893	1351	1440*
TAD1672VE	Stage IV / Tier 4f	515	700	1800	3213	1300	16.1	1490	894	1351	1322
TAD1643VE	Stage II / Tier 2	565	768	1900	3261	1300	16.1	1580	899	1311	1440

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