

**13 LITRE SERIES**



# ENGINE RANGE

**8 LITRE SERIES**



**ELECTRICAL POWER GENERATION**

**OFF-ROAD, STATIONARY AND POWER GENERATION**

**OFF-ROAD AND STATIONARY**



**16 LITRE SERIES**

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**16 LITRE SERIES**

# Industrial Engines for Off-Road and stationary applications 2013

## Stage II/Tier 2

Engine	Maximum power			Peak torque		Displ. litres	Length mm	Width mm	Height mm	Wet weight kg	Emission levels	
	kW	hp	rpm	Nm	rpm						EU Stage	EPA Tier
TAD620VE	155	211	2500	700	1500	5.7	1034	610	906	510*	II	2
TAD720VE	174	237	2300	854	1400	7.2	1172	630	975	680*	II	2
TAD721VE	195	265	2300	907	1600	7.2	1172	630	975	680*	II	2
TAD722VE	220	300	2300	1050	1400	7.2	1172	630	975	680*	II	2
TAD940VE	190	258	2100	1251	1000	9.4	1312	902	1130	1065	II	2
TAD941VE	220	300	2100	1401	1200	9.4	1312	902	1130	1065	II	2
TAD942VE	250	340	2100	1617	1400	9.4	1312	902	1130	1065	II	2
TAD943VE	280	380	1900	1719	1400	9.4	1312	902	1130	1065	II	2
TAD1340VE	256	348	2100	1745	1260 <sup>1)</sup>	12.8	1427	868	1148	1237	II	2
TAD1341VE	275	374	2100	1880	1260 <sup>1)</sup>	12.8	1427	868	1148	1237	II	2
TAD1342VE	310	422	2100	1990	1260 <sup>1)</sup>	12.8	1427	868	1148	1237	II	2
TAD1343VE	332	452	2100	2110	1260 <sup>1)</sup>	12.8	1427	868	1148	1237	II	2
TAD1344VE	352	479	2100	2215	1260 <sup>1)</sup>	12.8	1427	868	1148	1237	II	2
TAD1345VE	394	536	2100	2300	1260 <sup>1)</sup>	12.8	1427	868	1148	1237	II	2
TAD1640VE	405	551	1900	2760	1200	16.1	1582	868	1320	1440	II	2
TAD1641VE	450	612	1800	2910	1200	16.1	1582	868	1320	1440	II	2
TAD1642VE	515	700	1800	3220	1200	16.1	1582	868	1320	1444	II	2
TAD1643VE	565	768	1900	3287	1200	16.1	1582	868	1320	1510	N/A	2

## Stage IIIA/Tier 3

Engine	Maximum power			Peak torque		Displ. litres	Length mm	Width mm	Height mm	Wet weight kg	Emission levels	
	kW	hp	rpm	Nm	rpm						EU Stage	EPA Tier
TAD660VE	147	200	2300	800	1600	5.7	1074	674	991	585	IIIA	3
TAD750VE	170	231	2300	952	1500	7.2	1190	697	1036	681	IIIA	3
TAD750VE	181	246	2300	1050	1500	7.2	1190	697	1036	681	IIIA	3
TAD760VE	181	246	2300	1100	1500	7.2	1190	697	1036	681	IIIA	3
TAD750VE	200	272	2300	1050	1500	7.2	1190	697	1036	681	IIIA	3
TAD950VE	200	272	1900	1220	1500	9.4	1422	938	1136	1065	IIIA	3
TAD951VE	224	305	2100	1703	1200	9.4	1422	938	1136	1065	IIIA	3
TAD952VE	252	343	1900	1735	1300	9.4	1422	938	1136	1065	IIIA	3
TAD1650VE	397	540	1800	2551	1400	16.1	1582	868	1320	1425*	IIIA	3

## Stage IIIB/Tier 4i

Engine	Maximum power			Peak torque		Displ. litres	Length mm	Width mm	Height mm	Wet weight kg	Emission levels	
	kW	hp	rpm	Nm	rpm						EU Stage	EPA Tier
TAD560VE	129	175	2300	663	1100	4.8	894	817	909	500	IIIB	4i
TAD561VE	155	211	2300	823	1200	4.8	894	817	909	500	IIIB	4i
TAD761VE	160	218	2300	1178	1200	7.2	1157	761	1008	650	IIIB	4i
TAD762VE	185	252	2300	1178	1200	7.2	1157	761	1008	650	IIIB	4i
TAD763VE	210	286	2300	1178	1200	7.2	1157	761	1008	650	IIIB	4i
TAD764VE	225	306	2300	1250	1200	7.2	1157	761	1008	650	IIIB	4i
TAD765VE	240	326	2300	1300	1200	7.2	1157	761	1008	650	IIIB	4i
TAD1360VE	256	348	1900	1740	1000	12.8	1427	868	1148	1237	IIIB	4i
TAD1361VE	285	388	1900	1940	1000	12.8	1427	868	1148	1237	IIIB	4i
TAD1362VE	315	428	1900	2140	1000	12.8	1427	868	1148	1237	IIIB	4i
TAD1363VE	345	469	1900	2345	1000	12.8	1427	868	1148	1237	IIIB	4i
TAD1364VE	375	510	1900	2550	1000	12.8	1427	868	1148	1237	IIIB	4i
TAD1365VE	405	551	1900	2650	1100	12.8	1427	868	1148	1237	IIIB	4i
TAD1660VE	405	551	1900	2700	950	16.1	1582	868	1320	1440	IIIB	4i
TAD1661VE	450	612	1900	2855	960	16.1	1582	868	1320	1440	IIIB	4i
TAD1662VE	515	700	1800	3160	1000	16.1	1582	868	1320	1440	IIIB	4i

## Stage IV/Tier 4f (PRELIMINARY) \*\*

Engine	Maximum power			Peak torque		Displ. litres	Length mm	Width mm	Height mm	Wet weight kg	Emission levels	
	kW	hp	rpm	Nm	rpm						EU Stage	EPA Tier
TAD570VE	105	143	2300	700	1000	5.1	957	809	988	560*	IV	4f
TAD571VE	129	175	2300	800	1100	5.1	957	809	988	560*	IV	4f
TAD572VE	160	218	2300	900	1200	5.1	957	809	988	560*	IV	4f
TAD870VE	160	218	2200	1050	1000	7.7	1217	830	1004	735*	IV	4f
TAD871VE	185	252	2200	1150	1100	7.7	1217	830	1004	735*	IV	4f
TAD872VE	210	286	2200	1250	1100	7.7	1217	830	1004	735*	IV	4f
TAD873VE	235	320	2200	1300	1200	7.7	1217	830	1004	735*	IV	4f
TAD1170VE	235	320	2100	1550	950	10.8	1148	918	1148	1065	IV	4f
TAD1171VE	265	360	2100	1750	1000	10.8	1148	918	1148	1065	IV	4f
TAD1172VE	285	388	2000	1900	1100	10.8	1148	918	1148	1065	IV	4f
TAD1371VE	285	388	1900	1925	945	12.8	1427	868	1148	1335	IV	4f
TAD1372VE	315	428	1900	2130	970	12.8	1427	868	1148	1335	IV	4f
TAD1373VE	345	469	1900	2330	1000	12.8	1427	868	1148	1335	IV	4f
TAD1374VE	375	510	1900	2540	1100	12.8	1427	868	1148	1335	IV	4f
TAD1375VE	405	551	1900	2590	1150	12.8	1427	868	1148	1335	IV	4f
TAD1670VE	405	551	1900	2700	950	16.1	1582	893	1320	1455	IV	4f
TAD1671VE	450	612	1900	2900	960	16.1	1582	893	1320	1455	IV	4f
TAD1672VE	515	700	1900	3150	1000	16.1	1582	893	1320	1455	IV	4f

\* Dry weight. Weight is depending on engine specification. \*\* The Stage IV/Tier 4f engines will be available no earlier than at the end of 2013.

# Power generation engines

## Stage I and II/Tier 1 and 2

Engine	50 Hz/1500 rpm						60 Hz/1800 rpm						Generator efficiency (%)	Emission levels	
	Prime power			Standby power			Prime power			Standby power				EU Stage	EPA Tier
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA			
TD520GE	75	69	86	83	76	94	77	70	88	85	77	97	91%	I	1
TAD530GE	75	69	86	83	76	94	77	70	88	85	77	97	91%	II	2
TAD531GE	88	80	100	98	89	111	93	85	106	104	95	118	91%	II	2
TAD532GE	112	103	129	125	115	144	117	108	135	129	119	148	92%	II	2
TAD730GE	113	104	130	124	114	143	115	106	133	127	117	146	92%	II	2
TAD731GE	135	124	155	148	136	170	140	129	161	154	142	177	92%	II	2
TAD732GE	161	148	185	177	163	204	179	165	206	197	181	227	92%	II	2
TAD733GE	177	163	204	195	179	224	198	182	228	218	201	251	92%	II	2
TAD734GE	219	202	252	241	222	277	225	207	258	247	227	284	92%	II	2
TAD940GE	242	223	278	267	246	307	249	229	286	276	254	317	92%	II	2
TAD941GE	281	261	327	310	288	360	292	272	339	323	300	375	93%	II	2
TAD1341GE	275	255	319	302	281	351	294	273	342	324	301	377	93%	II	2
TAD1342GE	303	282	352	333	310	387	345	321	401	377	351	438	93%	II	2
TAD1343GE	325	302	378	356	331	414	353	328	410	388	361	451	93%	II	2
TAD1344GE	354	329	411	389	362	452	392	364	455	431	401	501	93%	II	2
TAD1345GE	388	361	451	431	401	501	392	364	455	431	401	501	93%	II	2
TAD1640GE	392	368	460	431	405	506	430	404	505	479	450	563	94%	II	2
TAD1641GE	430	404	505	473	445	556	485	456	570	546	513	642	94%	II	2
TAD1642GE	503	473	591	554	521	651	532	500	625	585	550	687	94%	II	2
TWD1643GE	536	504	630	596	560	700	585	550	687	644	605	757	94%	II	2

## Stage IIIA/Tier 3

Engine	50 Hz/1500 rpm						60 Hz/1800 rpm						Generator efficiency (%)	Emission levels	
	Prime power			Standby power			Prime power			Standby power				EU Stage	EPA Tier
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA			
TAD550GE	76	69	86	85	77	97	84	76	96	93	85	106	91%	IIIA	3
TAD551GE	89	81	101	100	91	114	99	90	113	111	101	126	91%	IIIA	3
TAD750GE	115	106	133	127	117	146	127	117	146	146	134	168	92%	IIIA	3
TAD751GE	132	121	152	145	133	167	149	137	171	166	153	191	92%	IIIA	3
TAD752GE	155	143	178	173	159	199	174	160	200	195	179	224	92%	IIIA	3
TAD753GE	173	159	199	191	176	220	194	178	223	218	201	251	92%	IIIA	3
TAD754GE	217	200	250	239	220	275	219	201	252	246	226	28			