

Derate tables

4000 Series

4012-46TAG1A
4012-46TAG2A
4012-46TAG3A

Diesel engines

Emission compliant
Tropical cooling @ 1500 rev/min

4012-46TAG1A Baseload - 973 kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	909.0	909.0	879.8	850.6	811.7	782.5
500	899.3	870.1	840.9	811.7	772.8	743.6
1000	860.4	831.2	802.0	772.8	733.9	704.7
1500	821.4	792.2	763.1	733.9	694.9	665.8
2000	782.5	753.3	724.1	694.9	656.0	626.8
2500	743.6	714.4	685.2	656.0	617.1	587.9

4012-46TAG1A Prime - 1212 kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	1148.0	1148.0	1111.6	1075.3	1026.8	990.4
500	1135.9	1099.5	1063.2	1026.8	978.3	942.0
1000	1087.4	1051.0	1014.7	978.3	929.8	893.5
1500	1038.9	1002.6	966.2	929.8	881.4	845.0
2000	990.4	954.1	917.7	881.4	832.9	796.5
2500	942.0	905.6	869.2	832.9	784.4	748.0

4012-46TAG1A Standby - 1327 kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	1263.0	1263.0	1223.2	1183.4	1130.3	1090.5
500	1249.7	1209.9	1170.1	1130.3	1077.2	1037.4
1000	1196.7	1156.8	1117.0	1077.2	1024.1	984.3
1500	1143.6	1103.8	1064.0	1024.1	971.1	931.3
2000	1090.5	1050.7	1010.9	971.1	918.0	878.2
2500	1037.4	997.6	957.8	918.0	864.9	825.1

4012-46TAG2A Baseload - 1069 kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	1005.0	1005.0	972.9	940.9	898.1	866.0
500	994.3	962.2	930.2	898.1	855.3	823.3
1000	951.6	919.5	887.4	855.3	812.6	780.5
1500	908.8	876.7	844.7	812.6	769.8	737.8
2000	866.0	834.0	801.9	769.8	727.1	695.0
2500	823.3	791.2	759.1	727.1	684.3	652.2

4012-46TAG2A Prime - 1331 kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	1267.0	1267.0	1227.1	1187.1	1133.9	1094.0
500	1253.7	1213.8	1173.8	1133.9	1080.7	1040.7
1000	1200.5	1160.5	1120.6	1080.7	1027.4	987.5
1500	1147.2	1107.3	1067.4	1027.4	974.2	934.3
2000	1094.0	1054.0	1014.1	974.2	920.9	881.0
2500	1040.7	1000.8	960.9	920.9	867.7	827.8

4012-46TAG2A Standby - 1459 - kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	1395.0	1395.0	1351.2	1307.5	1249.1	1205.3
500	1380.4	1336.6	1292.9	1249.1	1190.7	1147.0
1000	1322.1	1278.3	1234.5	1190.7	1132.4	1088.6
1500	1263.7	1219.9	1176.2	1132.4	1074.0	1030.3
2000	1205.3	1161.6	1117.8	1074.0	1015.7	971.9
2500	1147.0	1103.2	1059.4	1015.7	957.3	913.5

4012-46TAG3A Baseload - 1256 kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	1196.0	1196.0	1158.3	1120.6	1070.4	1032.7
500	1183.4	1145.8	1108.1	1070.4	1020.2	982.5
1000	1133.2	1095.5	1057.8	1020.2	969.9	932.2
1500	1083.0	1045.3	1007.6	969.9	919.7	882.0
2000	1032.7	995.0	957.4	919.7	869.4	831.8
2500	982.5	944.8	907.1	869.4	819.2	781.5

4012-46TAG3A Prime - 1496 kWm gross

"Altitude M"	Ambient Temperature °C					
	25.0	30.0	35.0	40.0	45.0	50.0
150	1436.0	1436.0	1391.1	1346.2	1286.4	1241.5
500	1421.0	1376.2	1331.3	1286.4	1226.6	1181.7
1000	1361.2	1316.3	1271.4	1226.6	1166.7	1121.8
1500	1301.4	1256.5	1211.6	1166.7	1106.9	1062.0
2000	1241.5	1196.6	1151.8	1106.9	1047.0	1002.2
2500	1181.7	1136.8	1091.9	1047.0	987.2	942.3

Notes:

- Emissions compliant at Standard Test Conditions
- Derating maybe necessary for high air intake temperature and/or elevated altitude

All engine power figures shown in the tables above are quoted in kWb NETT power.

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