



GE Land Based Stationary Genset Power Ratings (Non Emissions ratings typical)

Revision History				
REV	Date	By	RIN / CO	Rev Description
0	March 24, 2009	L. Gray	N/A	Initial Release.
A	Jan. 18, 2010	L. Gray	N/A	Added note.
B	Oct. 7 2010	J. Litzenberg	N/A	Updated title
C/D	Mar. 2 2014	J. Litzenberg	N/A	Updated note

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GE Marine and Stationary

Apr, 2 2014

GE Diesel Engine Power Ratings

Rev. D

GE Genset Power Ratings based on ISO 8528-1: 2005

Engine Model		Engine (bkW)				Engine (bhp)			
Speed, RPM	Elec. Freq., Hz	Continuous Power ⁽¹⁾ (bkW)	Prime Power ⁽²⁾ (bkW)	Limited Time Running Power ⁽³⁾ (bkW)	Emergency Standby Power ⁽⁴⁾ (bkW)	Continuous Power ⁽¹⁾ (bhp)	Prime Power ⁽²⁾ (bhp)	Limited Time Running Power ⁽³⁾ (bhp)	Emergency Standby Power ⁽⁴⁾ (bhp)
16V250									
1000	50	4038	4442	4846	5249	5415	5957	6498	7040
900	60	3632	3995	4358	4721	4870	5357	5844	6331
12V250									
1000	50	3028	3330	3633	3936	4060	4466	4872	5278
900	60	2726	2998	3271	3543	3655	4021	4386	4752
16V228									
1000	50	2905	3196	3486	N/A	3896	4286	4675	N/A
900	60	2614	2876	3137		3506	3857	4207	
12V228									
1000	50	2179	2397	2615	N/A	2922	3214	3506	N/A
900	60	1961	2157	2353		2630	2893	3156	
8V228									
1000	50	1453	1598	1743	N/A	1948	2143	2338	N/A
900	60	1307	1438	1569		1753	1928	2104	
8L250									
1000	50	2219	2219	2441	2663	2976	2976	3274	3571
900	60	1998	1998	2198	2397	2679	2679	2947	3215
6L250									
1000	50	1664	1664	1831	1997	2232	2232	2455	2678
900	60	1498	1498	1648	1798	2009	2009	2210	2411

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Rev. D

GE Genset Power Ratings based on ISO 8528-1: 2005

Genset Model		Genset (ekW)			
Speed, RPM	Elec. Freq., Hz	Continuous Power ⁽¹⁾ (ekW)	Prime Power ⁽²⁾ (ekW)	Limited Time Running Power ⁽³⁾ (ekW)	Emergency Standby Power ⁽⁴⁾ (ekW)
16V250GSU 96.5% Efficiency					
1000	50	3897	4287	4676	5065
900	60	3505	3855	4205	4556
12V250GSU 96.5% Efficiency					
1000	50	2922	3213	3506	3798
900	60	2631	2893	3157	3419
16V228GSU 96.5% Efficiency					
1000	50	2803	3084	3364	N/A
900	60	2523	2775	3027	N/A
12V228GSU 96.0% Efficiency					
1000	50	2092	2301	2510	N/A
900	60	1883	2071	2259	N/A
8V228GSU 96.0% Efficiency					
1000	50	1395	1534	1673	N/A
900	60	1255	1380	1506	N/A
8L250GSU 96.0% Efficiency					
1000	50	2130	2130	2343	2556
900	60	1918	1918	2110	2301
6L250GSU 96.0% Efficiency					
1000	50	1597	1597	1758	1917
900	60	1438	1438	1582	1726

Definitions:

(1) Continuous Power (COP):

Continuous power is defined as being the maximum power which the generating set is capable of delivering continuously while supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. (Reference: ISO 8528-1:2005)

(2) Prime Power (PRP):

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously while supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power

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output over 24 hr operation shall not exceed 70% of the PRP unless otherwise agreed by the RIC engine manufacturer (Reference: ISO 8528-1:2005)

Definitions (continued):

(3) Limited-Time Running Power (LTP):

Limited-time running power is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. (Reference: ISO 8528-1:2005)

(4) Emergency Standby Power (ESP):

Emergency standbypower is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. (Reference: ISO 8528-1:2005)

Note:

- Engineering validation work has not been conducted for LTP and ESP ratings for all engine models. Diesel Engine Engineering should be consulted before commercial commitments are made.
- Most Gen Set ratings are considered non-emissions ratings. Consult Diesel Engine Engineering for special emissions applications.
- For GE, the ISO 8528-1:2005 ratings are intended for land based stationary gen sets only.

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