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ELECTRIC POWER RATINGS GUIDE

2022



DIESEL

50 Hz, 6.8 – 250 kVA RATINGS

kVA		Generator Set Model	Engine	Configuration
Standby	Prime			
Single Phase Output* 1500 rpm				
7.5	6.8	DE7.5E3S	C1.1	R96/EU Stage IIIA Equivalent
11	10	DE11E3S	C1.5	R96/EU Stage IIIA Equivalent
12	11	DE12E0S	C1.5	Low BSFC
14	13	DE14E3S	C2.2	R96/EU Stage IIIA Equivalent
16.5	15	DE16E3S	C2.2	R96/EU Stage IIIA Equivalent
26	24	DE26E0S	C3.3	Low BSFC
26	24	DE26E3S	C3.3	R96/EU Stage IIIA Equivalent
40	36	DE40E0S	C3.3	Low BSFC
40	36	DE40E2S	C3.3	R96/EU Stage II Equivalent
50	45	DE50E0S	C3.3	Low BSFC
55	50	DE55E3S	C4.4	EU Stage IIIA
90	82	DE90E2S	C4.4	R96/EU Stage II Equivalent
90	82	DE90E3S	C4.4	EU Stage IIIA
Three Phase Output** 1500 rpm				
9.5	8.5	DE9.5E3	C1.1	R96/EU Stage IIIA Equivalent
13.5	12.5	DE13.5E3	C1.5	R96/EU Stage IIIA Equivalent
16	14.5	DE16E0	C1.5	Low BSFC
18	16.5	DE18E3	C2.2	R96/EU Stage IIIA Equivalent
22	20	DE22E3	C2.2	R96/EU Stage IIIA Equivalent
33	30	DE33E0	C3.3	Low BSFC
33	30	DE33E3	C3.3	R96/EU Stage IIIA Equivalent
50	45	DE50E0	C3.3	Low BSFC
50	45	DE50E2	C3.3	R96/EU Stage II Equivalent
55	50	DE55E0	C3.3	Low BSFC
55	50	DE55E2	C4.4	R96/EU Stage II Equivalent
65	60	DE65E0	C3.3	Low BSFC
65	60	DE65E3	C4.4	EU Stage IIIA
88	80	DE88E0	C4.4	Low BSFC
88	80	DE88E3	C4.4	EU Stage IIIA
110	100	DE110E2	C4.4	R96/EU Stage II Equivalent
110	100	DE110E3	C4.4	EU Stage IIIA
150	135	DE150E0	C7.1	Low BSFC
165	150	DE165E0	C7.1	Low BSFC
165	150	DE165E3	C7.1	R96/EU Stage IIIA Equivalent
175	160	DE175E3	C7.1	R96/EU Stage IIIA Equivalent
200	180	DE200E0	C7.1	Low BSFC
200	180	DE200E3	C7.1	R96/EU Stage IIIA Equivalent
220	200	DE220E0	C7.1	Low BSFC
250	230	DE250E0	C9	Low BSFC

*All ratings at 1.0 pf. **All ratings at 0.8 pf.

DIESEL

50 Hz, 250 – 850 kVA RATINGS

kVA		Generator Set Model	Engine	Configuration
Standby	Prime			
Three Phase Output* 1500 rpm				
275	250	DE275E0	C9	Low BSFC
275	250	DE275E3	C9	R96/EU Stage IIIA Equivalent
300	275	DE300E0	C9	Low BSFC
300	275	DE300E3	C9	R96/EU Stage IIIA Equivalent
330	300	DE330E0	C9	Low BSFC
—	350	DE350C3	C13	China Non-Road Stage III
—	400	DE400C3	C13	China Non-Road Stage III
400	350	DE400E0	C13	Low BSFC
450	400	DE450E0	C13	Low BSFC
450	400	DE450E3	C13	R96/EU Stage IIIA Equivalent
450	400	—	C15	Low BSFC
—	450	DE450C3	C15	China Non-Road Stage III
—	500	DE500C3	C15	China Non-Road Stage III
500	455	DE500E0	C15	Low BSFC
550	500	DE550E0	C15	Low BSFC
550	500	DE550E3	C15	R96/EU Stage IIIA Equivalent
605	550	DE605E0	C18	Low BSFC
—	600	DE600C3	C18	China Non-Road Stage III
660	600	DE660E0	C18	Low BSFC
700	635	—	C18	Low BSFC
715	650	DE715E0	C18	Low BSFC
780	706	DE780E0	C18	Low BSFC
850	770	DE850E0	C18	Low BSFC

*All ratings at 0.8 pf.

DIESEL

50 Hz, 680 – 4000 kVA RATINGS

Standby	kVA				Generator Set Model	Configuration
	Mission Critical	Prime	Prime-DCP	Contin.		
1500 rpm						
750	—	680	—	—	3412C	Low BSFC
800	—	725	—	—	3412C	Low BSFC
900	—	810	—	—	3412C	Low BSFC
1100	1100	1000	—	910	C32	Low BSFC, Low Emissions
1250	1250	1100	—	—	C32	Low BSFC
1250	1250	1150	1150	1000	3512	Low BSFC
1400	1400	1275	—	—	C32	Low BSFC
1400	1400	1275	1275	1206	3512	Low BSFC
1500	1500	1375	—	—	C32	Low BSFC
1500	1500	1360	1360	—	3512B	Low BSFC, Low Emissions
1600	1600	1500	1500	1320	3512B	Low BSFC, Low Emissions
1625	1625	—	—	—	3512B	Low BSFC, Low Emissions
1750	1750	1600	1600	—	3512B	Low BSFC, Low Emissions
1875	1875	1700	1700	1500	3512B	Low BSFC, Low Emissions
2000	2000	1825	1825	1600	3516	Low BSFC
2250	2250	2045	2045	—	3516C	< 2000 mg NO _x , EPA Tier 2
2250	2250	2000	2000	1750	3516B	Low BSFC, Low Emissions
2500	2500	2275	2275	—	3516C	< 2000 mg NO _x , EPA Tier 2
2500	2500	2275	2275	2000	3516B	Low BSFC, Low Emissions
2750	2750	2500	2500	—	3516C	< 2000 mg NO _x , EPA Tier 2
2750	2750	2500	2500	—	3516C	Low BSFC, Low Emissions
3000	3000	2725	2725	—	3516E	< 2000 mg NO _x , EPA Tier 2
3000	3000	2725	2725	2500	C175-16	Low BSFC
3000	3000	—	—	—	C175-16	Low Emissions
3000	3000	2750	2750	—	3516E	Low BSFC
3250	3250	2950	2950	—	3516E	< 2000 mg NO _x , EPA Tier 2
3500	3500	3175	3175	—	3516E	EPA Tier 2
3900	3900	3500	3500	3150	C175-20	Low BSFC
3900	3900	—	—	—	C175-20	Low Emissions
4000*	4000*	3600*	3600*	3250*	C175-20	Low BSFC
4000*	4000*	—	—	—	C175-20	Low Emissions
1000 rpm						
2688	—	2425	—	2200	3606	Low BSFC
3575	—	3250	—	2938	3608	Low BSFC
—	—	3250	—	2938	C280-8	IMO/U.S. EPA Tier 2

*Rating does not include package mounted radiator.

DIESEL

DEFINITIONS

Standby

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby rated kW. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Mission Critical

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the mission critical rated kW. Typical peak demand up to 100% of rated kW for up to 5% of the operating time. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Prime

Output available with varying load for an unlimited time. Average power output is 70% of the prime rated kW. Typical peak demand is 100% of prime rated kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Prime-DCP

For data center applications only. Prime-DCP power output available with varying load for unlimited time. Average power output is not to exceed 100% of Prime-DCP rated kW. Typical peak demand is 100% of the prime-DCP rated kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Continuous

Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous rated kW. Typical peak demand is 100% of continuous rated kW for 100% of the operating hours.



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SYSTEMS PRODUCTS



SYSTEMS PRODUCTS

ADVANCED CONTROL

Flexible control products and architectures for tailoring the performance of Cat Electric Power sources to meet any application. Designed around customer requirements or pre-configurable solutions.

Description	EMCP 4.4 SCP Supervisory Control	EMCP 4.4 Master Control Panel		
		(EGP4)	(EGP)	(XLM)
Operating Modes				
Emergency Standby / Island Mode	●	●	●	●
Utility Paralleling	–	–	–	●
System Capacity				
Number of Units	16	4	8 (Standard)	8 (Standard)
Voltages				
Voltage	●	●	●	●
(208V – 15 kV)				
Generator Paralleling Functions				
Dead Bus Arbitration		●	●	●
Synchronization		(Note 1)	(Note 1)	(Note 1)
Load Sharing	(Note 1)	●	●	●
Load Sense / Load Demand (LS / LD)		●	●	●
LS / LD – Engine Hours Balancing		●	●	●
Load Shed / Load Add Stages	16	4	8	8
Utility Paralleling Functions				
Base Load Control	–	–	–	●
Load Management / Peak Shaving (Utility)	–	–	–	●
Utility Transfer / Control	–	–	–	●
Utility Protection Relaying (Industrial Grade)	–	–	–	●

KEY

- Standard
- Not Available

Notes:

(1) Function included as part of the system – performed by the EMCP 4.4 Generator Set Controller.

SYSTEMS PRODUCTS

	EPIC	CHP	Controls and Switchgear	
	Modular Control Panels Ideal for Adding Additional Generation Capacity	Combined Heat and Power (CHP) Loop System Controls	Configurable Controls and Switchgear with Standardized Sequence of Operations	Design to Order Controls and Switchgear with Customizable Sequence of Operations
	•	–	•	•
	•	•	•	•
	≤12	≤12	≤12	Unlimited
	•	•	•	•
	(208V – 38 kV)			
	•	–	•	•
	•	•	•	•
	•	–	•	•
	•	–	•	•
	•	–	•	•
	12	–	12	Unlimited
	–	•	–	–
	•	•	•	•
	•	–	•	•
	–	•	•	•

SYSTEMS PRODUCTS

Temporary Generator Connections

Features:

- UL508A
- Visual indication of L-L voltage (3 phase)
- Color Coded Cam-Locks
- Selectable Cam-Lock receptacle gender or mechanical lug connection to generator
- Available Phase Rotation, Loss and Undervoltage Protection
- Padlockable Wingnob latch
- Density rated (1000A/in²) bus
- Mechanically Interlocked access doors

Functions:

- Provides simple connection of temporary generator or load bank
- Provides for permanent lug or circuit breaker connection to building distribution equipment
- Weatherproof enclosures with temporary generator cable access doors

Product	Amp Range	Enclosures	Controllers
Lug-to-Lug Tap Box	200A – 3000A	NEMA3R	Lugs Only
Wallmount Camlock Tap Box	400A – 2400A	NEMA3R or NEMA3R 316 Stainless	Male or Female
Free Standing Camlock Tap Box	1600A – 4000A	NEMA3R or NEMA3R 316 Stainless	Male or Female
Enclosed Circuit Breaker Box	200A – 800A	NEMA3R, 4X Stainless	Male or Female