Cat® DE88 GC Diesel Generator Sets



Standby and Prime: 50 Hz & 60 Hz



Image shown may not reflect actual configuration

Engine Model	Cat® C4.4 Inline 4-stroke Diesel		
Bore x Stroke	105.0 mm x 127.0 mm (4.1 in x 5.0 in)		
Displacement	4.4 L (268.5 in³)		
Compression Ratio	17.25:1		
Aspiration	Turbocharged		
Fuel Injection System	Inline		
Governor	Mechanical		

	Star	ıdby	Prime (SRR)	
Model	50 Hz kVA (ekW)	60 Hz kVA (ekW)	50 Hz kVA (ekW)	Emission Strategy
DE88 GC	88 (70.4)	100 (80.0)	79.2 (63.4)	Low BSFC

PACKAGE PERFORMANCE

	Standby		Prime (SRR)	
Performance	50 Hz	60 Hz	50 Hz	
Genset power rating	88 kVA	100 kVA) +ž\$ kVA	
Genset power rating with fan @ 0.8 power factor	70.4 ekW	80 ekW	(3ž&ekW	
Emissions		Low	BSFC	
Performance number	P2516B	P2516A	B\$ #(6	
Fuel Consumption				
Fuel tank capacity, L (gal)		149 (39.4)	
100% load with fan, L/hr (gal/hr)	20.4 (5.4)	23.8 (6.3)	18.0 (4.8)	
75% load with fan, L/hr (gal/hr)	15.2 (4.0)	18.0 (4.8)	13.6 (3.6)	
50% load with fan, L/hr (gal/hr)	10.5 (2.8)	12.7 (3.4)	9.5 (2.5)	
Cooling System ¹				
Radiator air flow, m³/min (CFM)	121.2 (4280)	140.4 (4958)	121.2 (4280)	
Total coolant capacity, L (gal)	13.0 (3.4)			
Inlet Air				
Max. combustion air intake restriction, kPa (in. water)	8.0 (32.1)			
Combustion air inlet flow rate, m³/min (CFM)	5.1 (180)	6.5 (230)	4.8 (170)	
Exhaust System				
Exhaust stack gas temperature, °C (°F)	580 (1076)	560 (1040)	555 (1031)	
Exhaust gas flow rate, m³/min (CFM)	13.3 (470)	15.9 (560)	12.5 (441)	
Exhaust system backpressure (maximum allowable), kPa (in. water)	10 (3.0)	15 (4.4)	10 (3.0)	
Heat Rejection				
Heat rejection to jacket water, kW (BTU/min)	51 (2900)	57 (3242)	46 (2616)	
Heat rejection to alternator, kW (BTU/min)	6.7 (381)	7.1 (404)	6.7 (381)	
Heat rejection to atmosphere from engine, kW (BTU/min)	14 (797)	15 (854)	13 (739)	
Heat rejection to exhaust (total), kW (BTU/min)	59 (3358)	71 (4041)	55 (3127)	

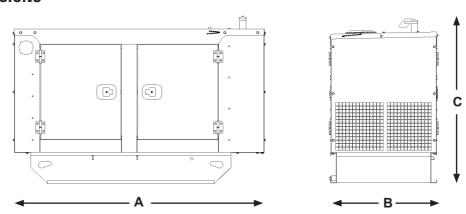
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DE88 E0 GC Diesel Generator Sets Electric Power



Alternator ²	50 Hz (Standby/Prime)		60 Hz (Standby)					
Voltages	380	415	400	480	440	220	380	240
Motor starting capability @ 30% Voltage Dip, skVA	154	183	170	204	172	172	130	154
Current, Amps	134 / 120	122 / 110	127 / 114	120	131	262	149.5	241
Temperature Rise, °C	150/40	150/40	150/40	130/40	130/40	130/40	163/27	150/40
Frame Size	A2137L4							
Excitation	S.E							

WEIGHTS & DIMENSIONS



Note: General configuration not to be used for installation. See general dimension drawings for detail.

Length "A"	Width "B"	Height "C"	Dry Weight [#]	
mm (in)	mm (in)	mm (in)	kg (lb)	
2275 (89.6)	1099 (43.3)	1465 (57.7)		

^{*}Weight includes standard generator, Enclosure and Integral Tank base

APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO3046, ISO8528, NEMA MG1-33, EAC, CE, UKCA.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.

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 power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

PRIME (SRR): Output available with varying load. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year. Maximum run time not to exceed 2000 hours per year.

DEFINITIONS AND CONDITIONS

- ¹ For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.
- ² Generator temperature rise is based on IEC 60034-1.

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 standard conditions.

LET'S DO THE WORK.

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