



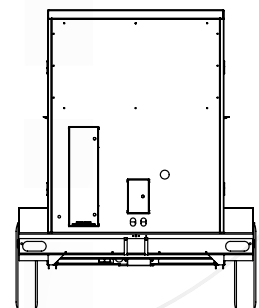
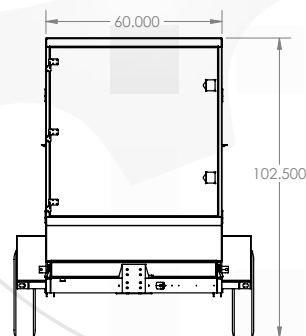
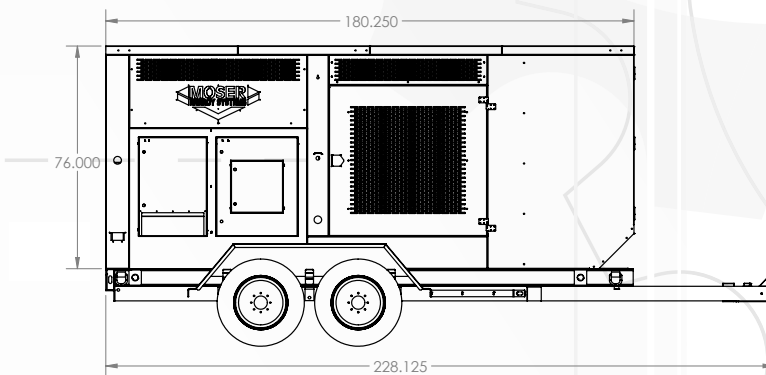
DRC170



Prime/Continuous Duty Generator Set

DRC170 **UNIT SPECS**

24/7 PRIME POWER KW (KVA)	170 kW (212 kVA)
ENGINE PRIME RATING HP (KW)	268 HP (200 kVA)
GENERATOR RATING KW (KVA)	236 kW (295 kVA)
MAXIMUM AMP RATING	255
SIZE OF UNIT	14' X 6'8.5" - TONGUE IS 4'9"
WEIGHT OF UNIT	Approximately 10,000 lbs.



800.584.9833 | MOSERES.COM

ELECTRICAL DATA

Insulation System	Class H
Stator Winding	Double Layer Lap
Winding Pitch	Two Thirds
Winding Leads	12
Winding Number	311
Number of Poles	4
IP Rating	IP23
RFI Suppression	BS EN 61000-6-2 & BS EN 61000-6-4, VDE 0875G, VDE 0875N. Refer to factory for others
Waveform Distortion	NO LOAD < 1.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%
Short Circuit Ratio	1/Xd
Steady State X/R Ratio	13.0147

50 Hz
60 Hz

Telephone Interference	THF < 2%				TIF < 50			
Cooling Air	0.85 m³/sec				1.02 m³/sec			
Voltage Star	380	400	415	440	416	440	460	480
kVA Base rating (Class H) for Reactance Values	250	260	260	250	288	310	315	325

60 Hz

Class - Temp Rise	Standby - 163/27 °C				Standby - 150/40 °C				Cont. H - 125/40 °C				Cont. F - 105/40 °C			
Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
kVA	310	345	345	355	300	330	335	350	288	310	315	325	260	280	290	295
kW	248	276	276	284	240	264	268	280	230	248	252	260	208	224	232	236
Efficiency (%)	91.7	91.4	91.7	91.8	91.9	91.7	91.9	91.9	92.1	92.1	92.2	92.3	92.5	92.5	92.6	92.7
kW Input	271	302	301	309	261	288	292	305	250	269	273	282	225	242	251	255

EXCITATION AND VOLTAGE REGULATORS

AVR Type	as440	mx341	mx321	
Voltage Regulation	±1%	±1%	±0.5%	with 4% Engine Governing
Excitation Type	Self-Excited	PMG	PMG	

No Load Excitation Voltage (V)	12 - 9
No Load Excitation Current (A)	0.7 - 0.5
Full Load Excitation Voltage (V)	43 - 40
Full Load Excitation Current (A)	2.4 - 2.2
Exciter Time Constant (seconds)	0.105

STAMFORD
S4L1D-C41 Wdg.311



Optional voltages and frequencies available.



DSE8610 MKII

SYNCHRONISING & LOAD SHARING AUTO START CONTROL MODULE

- Comprehensive synchronizing & load sharing capabilities.
- Built in governor and AVR control.
- Base load (kW export) control.
- Positive & negative kVAr export control.
- Mains (Utility) decoupling protection.
- 4-Line back-lit LCD text display.
- Multiple display languages.
- Five key menu navigation.
- LCD alarm indication.
- Heated display option available.
- DSENet expansion capability.
- Data logging & trending facility.
- Protections disable feature.
- Front panel configuration with PIN protection.
- Power save mode.
- 3 phase generator sensing and protection.
- Generator current and power monitoring (kW, kvar, kVA, pf).
- kW and kvar overload alarms.
- Reverse power alarms.
- Over current protection.
- Unbalance load protection.
- Breaker control via fascia buttons. one variant.
- Real-time clock.
- Engine run-time scheduler.
- Fuel usage monitor and low fuel level alarms.
- Simultaneous use of all communication ports.
- Remote SCADA monitoring via various DSE software applications.
- MODBUS RTU & TCP support with configurable MODBUS pages for integration into building management systems (BMS).
- Optional Advanced SMS messaging capability. (Additional external modem required.)
- 3 configurable maintenance alarms.
- Power modes for when in parallel with the mains.

Standard Options: Heavy Duty Trailer • Fuel Scrubber • Low-Noise Enclosure • Oil Make-Up • Auto-Switching Propane Kit • Integrated Paralleling Gear.

Available Options: Cold Weather Package • Multiple Voltages at 50 Hz and 60 Hz • Ultra-Low Emissions Package • Engine Block Heater.

GENERAL ENGINE DATA	STD	METRIC	1500	1800
Type	N/A	N/A	In-Line 4 cycle	
Number of cylinders	N/A	N/A	6	
Aspiration	N/A	N/A	Turbo Charged Air Cooled	
Bore	in	mm	4.84 123	4.84 123
Stroke	in	mm	6.1 155	6.1 155
Displacement	in^3	L	673 11.1	673 11.1
Compression ratio	N/A		10.5	
RPM Range (Min-Max)		RPM	1500-2000	
Rotation Viewed from Flywheel		N/A	Counter Clockwise	
Firing Order		N/A	1-5-3-6-2-4	
Dry Weight				
Fan to Flywheel	lb	kg	2600 1179	2600 1179
Rad to Flywheel	lb	kg	3125 1417	3125 1417
Wet Weight				
Fan to Flywheel	lb	kg	2695 1206	2695 2627
Rad to Flywheel	lb	kg	3377 1530	3377 1530

EXHAUST SYSTEM

Type			Watered Cooled Manifold			
Maximum allowable back pressure	in HG	kPa	3	10.2	3	10.2
Standard catalyst back pressure	in HG	kPa	1.5	5.1	1.5	5.1
Exhaust outlet pipe size						
Maximum turbine inlet temperature	F	C	1382	750	1382	750
Exhaust flow at rated power	lb/hr	kg/hr	1654	750	1869	848
Exhaust flow at rated power @ 1350F	cfm	m^3/min	1261.13	35.7	1425	40.3

AIR INDUCTION SYSTEM

Maximum allowable intake air restrictions with air cleaner						
Clean	in H2O	kPa	5	1.24	5	1.24
Dirty	in H2O	kPa	15	3.74	15	3.74
Combustion air required (entire engine)	lb/hr	kg/hr	1561	708	1764	800
Combustion air required (entire engine)	cfm	m^3/min	396	11	448	13

ELECTRICAL SYSTEM

Cold cranking current						
Engine only	CCA		900			
Engine with drive train	CCA		900			
Maximum allowable resistance of starting circuit	Ohms		0.002			
Starting motor power	HP	kW	9.4	7.0	9.4	7.0
Voltage	Volts		24			
Current	Amps		45			
Coil primary resistance	Ohms		0.59Ω ±10%			
Spark plug p/n			IFR7F-4D			
Spark plug gap	Inches	mm	.015" (-0/+0.008") .38mm (-0/+2mm)			

COOLING SYSTEM

Coolant capacity						
Engine only	gal	L	5.5	25.0	5.5	25.0
Engine with radiator	gal	L	23	105	23	105
Engine coolant flow	gal/min	L/min	69	260	82	310
Heat rejected to cooling water at rated load	btu/min	kcal/sec	9258	39	11071	46.5
Maximum intake air temperature (IAT)	F	C	155	68	155	68
Heat rejection per CAC	btu/min	kW	TBD		1460	25.7