

OMEGA

Cummins Diesel Powered Generators 38 kVA – 625 kVA



OMEGA Dongfeng Cummins diesel powered attenuated generator sets, designed and assembled on a heavy duty base in a rugged attenuated canopy provide reliable smooth uninterrupted power for long periods of operation in all conditions.

Construction Features

- Constructed to QA Std ISO 9001
- Heavy Duty Steel Base Frame
- Large Capacity, 24 hr Base Fuel Tank
- Canopy Enclosure in Cold Rolled Steel
- Fire Retarded Sound Insulation
- Sound level 70-75 dB(A) @ 7M
- Powder Paint Finish
- Stainless Steel Locks and Hinges
- Engine Fluid Spill Containment Area
- Resilient Anti-Vibration Mounts
- Forklift Access Points
- Waste Oil Drain Pump
- External Diesel Fuel Filling Point
- Internally Installed Maintenance Light
- High Impedance Type Exhaust Silencer
- Maintenance Free Lead Acid Batteries
- Battery Isolator Switch
- Battery Isolator Lock Out Lever Assembly
- External Emergency Stop Button
- A/C Outlet Distribution
 - Moulded Case Main Circuit Breaker
 - Switched Outlet Sockets
 - 1 x 32A, 500V, 5 pin, Three Phase
 - 2 x 15A, 250V, Single Phase
 - Outlets Circuit Breakers
 - RCD Protection / Single Phase

Engine Features

DCEC series diesel engines achieving superior reliability from a world proven design achieving excellent fuel economy, low vibration levels and durability in a compact size.

- Compliant EPA Tier 1
- Inline, 4 Stroke Configuration
- Water Cooled
- Tropical Radiator < 50° C + Pusher Fan
- Fan and Belt Protection Guards
- Inline Fuel Pump + Direct Injection
- Electronic Governor
- 24 Volt System – Starter Motor, Alternator
- Deif GC-1F+B3 Engine Control Module
 - LCD Display
 - Engine and A/C Parameters
 - Manual or Automatic Mode
 - AMF Function
- Alarm and Shutdown Protection
 - Low Oil Pressure
 - High Coolant Temperature
 - Low Coolant Level
 - Overspeed
 - Battery Charge
 - Fuel Level
 - A/C Outputs
 - Auxiliary Inputs/ Outputs



Alternator Features

Leroy Somers industrial alternators designed and manufactured in a ISO9001 environment will comply with the requirements of the main standards currently in force: IEC600034, ISO 8528, NEMA, CSA and CSA/UL.

- Four Pole, Single Bearing
- Self Exciting, Brushless
- Rated Voltage, 415V / 240V
- Rated Frequency 50 Hz
- Insulation Class "H"
- Protection Rating IP23
- Voltage Regulation $\pm 0.5\%$
- Sustained Short Circuit Current 300% / 10s
- Phone Interference THF < 2%
- Total Harmonic TGH / THC < 2%

Performance Data

Three Phase, 1500 Rpm, 50 Hz, 415/240 Volts

Model	Prime		Standby		Engine Model	Asp	Gov	Alternator	Fuel* (L/hr)	Tank (L)	Dimensions (mm)			Weight (kg)
	kVA	kWe	kVA	kWe							L	W	H	
AP38CA	38	30	41	33	4BT3.9-G1	T	M	LSA 43.2 S15	9.2	225	2250	1000	1760	1470
AP38CA	40	32	44	35	4BT3.9-G2	T	E	LSA 43.2 S15	9.2	225	2250	1000	1760	1470
AP50CA	50	40	55	44	4BTA3.9-G2	TA	E	LSA 43.2 S35	11.3	285	2250	1000	1790	1500
AP60CA	60	48	66	53	4BTA3.9-G2	TA	E	LSA 43.2 M45	13.5	330	2250	1000	1790	1560
AP75CA	75	60	83	66	6BT5.9G1	T	M	LSA 43.2 L8	16.9	470	2800	1050	1925	2050
AP100CA	100	80	110	88	6BT5.9G2	T	E	LSA 44.2 VS45	22.0	470	2800	1050	1925	2100
AP125CA	125	100	138	110	6BTA5.9-G2	TA	E	LSA 44.2 S75	27.4	560	3000	1200	1810	2200
AP135CA	135	108	148	118	6BTAA5.9-G2	TAA	E	LSA 44.2 M95	29.0	610	3000	1200	1810	2250
AP155CA	155	124	170	136	6CTA8.3-G2	TA	E	LSA 44.2 L12	33.7	680	3300	1350	1810	2500
AP175CA	175	140	193	154	6CTA8.3-G2	TA	E	LSA 46.2 M3	38.0	825	3300	1350	1810	2600
AP200CA	200	160	220	176	6CTAA8.3-G2	TAA	E	LSA 46.2 M5	42.0	910	3600	1500	2050	2900
AP250CA	250	200	275	220	6LTAA8.9-G2	TAA	E	LSA 46.2 L9	52.8	1,110	3600	1500	2050	3050
AP250CA	250	200	275	220	MTA11-G2A	TA	E	LSA 46.2 L9	52.4	1,110	4200	1400	2000	3800
AP313CA	313	250	350	280	MTA11-G3	TA	E	LSA 47.2 VS2	62.0	POA	4300	1400	2000	3900
AP350CA	350	280	400	320	NTA855-G2A	TA	E	LSA 47.2 VS2	76.0	POA	4200	1400	2100	4000
AP375CA	375	300	413	330	NTA855-G7	TA	E	LSA 47.2 S4	83.0	POA	4200	1600	2100	4450
AP400CA	400	320	440	352	NTAA855-G8A	TAA	E	LSA 47.2 S4	85.0	POA	4400	1700	2250	4500
AP450CA	450	360	500	400	KT19-G3	T	E	LSA 47.2 M7	96.0	POA	4400	1700	2350	5300
AP500CA	500	400	563	450	KT19-G4	T	E	LSA 47.2 M8	107.0	POA	4700	1700	2350	5400
AP560CA	563	450	625	500	KTAA19-G5	TAA	E	LSA 47.2 L9	120.0	POA	4850	1950	2450	5500
AP625CA	625	500	688	550	KTAA19-G6A	TAA	E	LSA 49.1 S4	133.0	POA	4900	2050	2650	5800

- **PRP:** Prime Power is available for an unlimited number of annual operating hours with variable load applications, in accordance with ISO8528-1. A 10% overload capability is available for a period of 1 hr within 12 hr period of operation in accordance with ISO3046-1.
- **LTP:** Standby Power is applicable for supplying emergency power in variable load applications for up to 200 hrs per annum in accordance with ISO8528-1. Overload not applicable.
- AC electrical ratings are calculated using Power Factor of 0.8
- Engine performance in accordance to GB/T18297 Testing Conditions - 25°C ambient temperature, 100 kPa atmospheric pressure and 30% relative humidity.
- Engine power factors for deration outside standards - 4%/ 300 M above 1500 M, 2%/ 11°C above 30°C.



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Manufactures specifications, materials and features are intended as a guide and are subject to changes without notice.