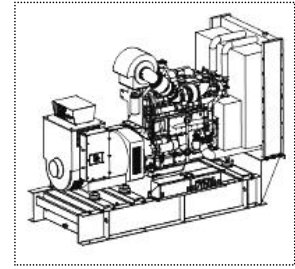


# Mains Power

<http://www.ycgenerator.com>



**Diesel Generator sets  
Powered by Cummins**



ISO14001 SGS ISO9001

## ASSEMBLY

- ※ The engine and alternator are close coupled by means of an SAE flange. A full torsional analysis has been carried out to guarantee no harmful vibration will occur. Engine with radiator and alternator are on common spraying powder mounting.
- ※ Anti-vibration pads are affixed between engine alternator feet and the base frame. Thus ensuring complete vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.
- ※ For durability and corrosion resistance, all iron and steel surfaces of canopy fabrications have been treated for coating by grit blast cleaning. Then covered by special three layers painting which provides an excellent corrosion resistant surface.

## WARRANTY

- ※ MAINS POWER Company provides one-source responsibility for the generator set and accessories. Each MAINS generating set has been got through 2 hours Load test for running 0%,25%,50%,75%,100% and 110% load, all protective devices and control function are simulated and checked before despatch.
- ※ Engine and Alternator are guaranteed for a period of 1500hours, or 12 months from the date of commissioning or 18 months from shipping, whichever occurs earlier.
- ※ Convenience for operation and maintenance, backed by Cummins global service network.

## MAINS STANDARD

### 3P4W, 50Hz@1500RPM, 400/230V

(380/220V and 415/240V are for optional)

**60hz, 1800RPM, 208V, 220V, 380V, 440V, 480V will be different technical data.**

### Scope supply:

- Cummins Diesel Engine with radiator and fan.
- Reliable AC brushless alternator, single
- Heavy duty steel frame with vibration-damping.
- Base service fuel tank inside skid.
- Lead acid batteries with cable for starter.
- Industrial silencer & flexible exhaust below.
- Mounted Control panel: key start or Digital.

### ENGINE (Strong power)

- World named brand in the line of Engine, produced from Cummins (USA brand).
- Heavy duty & durable 4-stroke water cooled industrial engine, stable running, longer service time.
- Fuel injection pump, low consumption.
- 4-cy, 6-cy in line, 12-cy, 16-cy Vee type. Light weight, compact structure.
- Turbocharged intercooler, naturally aspirated.
- Air/fuel/oil filters, start motor, battery charging alternator 24VDC, tool kits box, manual booklet & certificate.

The 2/3 pitch design avoids excessive neutral currents. With the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion.

Brushless alternator with pilot exciter for excellent load response.

Class H insulation, easy parallelling with mains or others, standard 2/3 pitch stator windings avoid excessive neutral currents.

Backed by worldwide service network.

## CONTROL SYSTEM

### 1.Standard: HGM6110 Auto/Manual Start

Providing the standard functions as follows:

(Also can be made according to the customers' special requirements)

- ※ Start/Stop controller, Emergency stop pushbutton
- ※ Ampere meter, Voltmeter and selector switch, Frequency meter/Water temperature gauge/Oil pressure gauge/Hour counter/Battery voltage meter.
- ※ Alarm System: Over speed, High Engine Temperature, Low Oil Pressure, Charge Failure.
- ※ Protection System: Over speed, High Engine Temperature, Low Oil Pressure, Emergency Stop. And the other protection function presetting.



HGM6110

### BENEFITS

- ※ Reliable service working, powerful, attractive appearance.
- ※ Low running cost(diesel fuel & oil, maintenance)
- ※ Easy for commissioning, operation and maintenace.

### CONTROL SYSTEM/PROTECTION

※ Controllers are available for all applications.It contains DeepSea, Smartgen or other famous brands. According to their different functions,the control systems can be specified into key start controller,digital auto-start controller and PCRC three remote control systems.See controller features inside.

### CRITERION

- ※ ISO8528, GB/T2820, ISO3046, BS4999, BS5514, BS5000
- ※ EN12601:2001, EN60034-22:1997, EN60204-1:2006
- ※ ISO9001:2000, ISO14001:2004, SGS, TLC

### ALTERNATOR (Reliable)

#### Voltage regulation

Voltage regulation maintained with in  $\pm 0.5\%$  as follow:

- Power factor between 0.8-1.0 lagging.
- From no load to full load,any steady load.
- Speed droop variation under 5%.

#### Frequency/Speed undulation

- 0-100% load, Frequency/Speed Droop Ratio  $< 5\%$ .
- 25-100% load, any steady load undulation  $< 0.25\%$ .

#### Effect factor of telecom

- TIF(MAMG1-22) $< 50$ ; THF(BS EN60034)  $< 2\%$

## 2.Option: DeepSea DSE-7320 Digital Auto Start (with AMF)

Digital Auto-start Generator controller integrating digital, intelligent and network techniques is used for automatic control system of diesel generator. It can carry out functions including automatic start/stop, data measure and alarming. Optionally assembled with the ATS, it can carry out auto-switching between the outer power and generating set power.(AMF)

### Functions:

- ※ Automatic Start/Stop, Engine monitoring and protection
- ※ 3 start attempts failure and Automatic Crank Disconnect
- ※ Parameters display(V/A/Hz/Hour), Running hour counting
- ※ Charge alternator exciting and Charge alternator fail alarm
- ※ Settings can be adjustable via key buttons on front panel

### Shutdown

- ※ Loss of Speed Signal
- ※ Alternator Under/Over Voltage
- ※ Alternator Under/Over Frequency
- ※ Mains Under/Over Voltage
- ※ Mains Under/Over Frequency
- ※ Under/Over Speed
- ※ Low Oil Pressure
- ※ High Engine Temperature

### Warning:

- ※ Alternator Under/Over Voltage
- ※ Alternator Under/Over Frequency
- ※ Mains Under/Over Voltage
- ※ Mains Under/Over Frequency
- ※ Under/Over Speed
- ※ Low Oil Pressure Pre-Alarm
- ※ High Engine Temp. Pre-Alarm
- ※ High/Low Battery Voltage



DSE7320



DSE8610

## 3.Option: DeepSea DSE8610 Controller with Synchronizing Function

Synchronizing Multi-Generators for Big Power capacity. And also Generators connection Government Grid power. See DSE8610 Spec.

## Optional Parts:

Engine	Alternator	Fuel System	Canopy
<ul style="list-style-type: none"> <li>● Heater 2KW&amp;4KW (Coolant &amp; Lube Oil)</li> <li>● Mains Electricity Battery Charger</li> </ul>	<ul style="list-style-type: none"> <li>● AVR PMG with regulator</li> <li>● Anti-damp and anti-corrosion treatment</li> <li>● Anti-condensation heater</li> </ul>	<ul style="list-style-type: none"> <li>● Low fuel level alarm</li> <li>● Automatic fuel feeding system</li> </ul>	<ul style="list-style-type: none"> <li>● Super silent (65-68Db@1m)</li> <li>● Normal silent (75-78Db@7m)</li> <li>● Soundproof type (20ft/40ft container)</li> </ul>
Lubricating System	Exhaust Gas System	Cooling System	Control Panel
<ul style="list-style-type: none"> <li>● Oil with the machine</li> </ul>	<ul style="list-style-type: none"> <li>● Protection board from hotness</li> <li>● Low frequency silencer</li> </ul>	<ul style="list-style-type: none"> <li>● Front heat protection</li> <li>● 50°C radiator</li> <li>● Coolant(-30°C)</li> </ul>	<ul style="list-style-type: none"> <li>● Remote controller</li> <li>● Auto-paralleling control panel</li> <li>● Auto Transfer/changeover Switch(ATS)</li> </ul>



Circuit Breaker



Paralleling System



ATS cabinet



Super Silent canopy

## 50HZ, 1500rpm, 380-415V, 3phase 4 wire,

Genset Model	Standby Power		Prime Prime		Engine Model	Alternator Model	Dimension (Open type)	Weight (kg)	L/h @100%
	KVA	KW	KVA	KW					
MC22D5	22	18	20	16	4B3.9-G1	PI144D	1800*750*1450	820	5.4
MC28D5	28	22	25	20	4B3.9-G1	PI144E	1800*750*1450	850	5.8
MC33D5	33	26	30	24	4B3.9-G2	PI144G	1800*750*1450	880	6.7
MC44D5	44	35	40	32	4BT3.9-G2	PI144J	1900*750*1450	980	9.3
MC55D5	55	44	50	40	4BTA3.9-G2	UCI224D	1920*780*1500	1020	11.5
MC66D5	66	53	60	48	4BTA3.9-G2	UCI224E	1920*780*1500	1050	13.1
MC88D5	88	70.4	80	64	4BTAA3.9-G11	UCI224F	1950*780*1500	1080	15
MC100D5	100	80	90	72	6BT5.9-G1	UCI274C	2550*880*1600	1280	22
MC110D5	110	88	100	80	6BT5.9-G2	UCI274C	2550*880*1600	1300	24
MC125D5	125	100	112	90	6BTA5.9-G2	UCI274D	2550*880*1600	1450	27
MC150D5	150	120	135	108	6BTAA5.9-G2	UCI274E	2550*880*1600	1550	29
MC175D5	175	140	160	128	6BTAA5.9-G12	UCI274F	2600*950*1700	1650	37
MC200D5	200	160	180	144	6CTA8.3-G2	UCI274G	2600*950*1700	1710	40
MC220D5	220	176	200	160	6CTAA8.3-G2	UCI274H	2600*950*1700	1760	45.4
MC250D5	250	200	225	180	6CTAA8.3-G9	UCD274J	2800*1000*1700	1980	53
MC275D5	275	220	250	200	6LTAA8.9-G2	UCDI274K	2800*1000*1700	2000	53
MC315D5	315	252	285	228	NTA855-G1A	S4L1D-D41	3200*1100*1850	3350	61.3
MC330D5	330	264	300	240	6LTAA9.5-G3	S4L1D-D41	2900*1000*1700	2400	57
MC350D5	350	280	320	256	NTA855-G1B	S4L1D-D41	3200*1100*1850	3350	71.4
MC380D5	380	304	350	280	NTA855-G2A	S4L1D-D41	3200*1100*1850	3380	71.9
MC400D5	400	320	365	292	NTA855-G4	S4L1D-F41	3200*1100*1850	3520	85.4
MC440D5	440	352	400	320	NTAA855-G7A	S4L1D-F41	3300*1155*1850	3870	94
MC500D5	500	400	450	360	KTA19-G3	S4L1D-G41	3400*1400*2040	3950	97
MC500D5A	500	400	450	360	QSZ13-G2	S4L1D-G41	3200*1100*1850	3650	92
MC550D5	550	440	500	400	KTA19-G3A	S5L1D-C41	3400*1400*2040	4100	106
MC550D5A	550	440	500	400	QSZ13-G3	S5L1D-C41	3200*1100*1850	3680	107
MC625D5	625	500	550	440	KTAA19-G5	S5L1D-D41	3400*1400*2040	4400	113
MC660D5	660	528	600	480	KTA19-G8	S5L1D-E41	3400*1400*2040	4580	127
MC690D5	690	552	625	500	KTAA19-G6A	S5L1D-F41	3400*1400*2040	4650	113
MC700D5	700	560	650	520	VTA28-G5	S5L1D-F41	3980*1720*2230	6200	140
MC715D5	715	572	650	520	QSK19-G4	S5L1D-F41	3750*1550*1960	4600	120
MC750D5	750	600	688	550	QSK19-G11	S5L1D-G41	3750*1550*1960	4800	135
MC825D5	825	660	750	600	VTA28-G6	S5L1D-H41	4000*1870*2100	6560	162
MC900D5	900	720	810	648	KTA38-G2B	S6L1D-C4	4600*1850*2200	7200	181
MC1000D5	1000	800	918	735	KTA38-G2A	S6L1D-D4	4600*1850*2200	7450	191
MC1100D5	1100	880	1000	800	KTA38-G5	S6L1D-E4	4600*1850*2200	7550	209
MC1250D5	1250	1000	1125	900	KTA38-G9	S6L1D-F4	4600*2060*2200	7900	232
MC1375D5	1375	1100	1250	1000	QSK38-G5	S6L1D-G4	4700*1850*2200	7800	240
MC1400D5	1400	1120	1250	1000	KTA50-G3	S6L1D-G4	5000*2100*2600	9800	254
MC1500D5	1500	1200	1400	1120	KTA50-G8	S6L1D-H4	5250*2150*2350	10500	289
MC1675D5	1675	1340	1500	1200	KTA50-GS8	S7L1D-C41	5250*2150*2350	10600	295
MC1875D5	1875	1500	1680	1344	KTA50-G15	S7L1D-D41	5300*2150*2350	11000	320
MC2000D5	2050	1640	1875	1500	QSK60-G3	S7L1D-F41	6200*2280*2540	15200	355
MC2250D5	2250	1800	2000	1600	QSK60-G4	S7L1D-G41	6200*2280*2540	15500	394
MC2500D5	2500	2000	2250	1800	QSK60-G21	S7L1D-J41	6200*2490*3100	17500	446
MC2750D5	2750	2200	2500	2000	QSK78-G9	LVS1804R	5800*2310*2300	20600	488
MC3000D5	3000	2400	2750	2200	QSK78-G9	LVS1804S	5800*2310*2300	20600	540
MC3300D5	3300	2640	3000	2400	QSK78G6	LVS1824G	5800*2310*2300	20600	596

## 60hz, 1800rpm, 220-480V, 3phase 4 wire,

Genset Model	Standby power		Prime power		Engine model	Alternator model	Dimension	Weight	L/h
	KVA	KW	KVA	KW					
MC33D6	33	26.4	30	24	4B3.9-G2	BCI184E	1750*780*1500	850	7.2

Specifications may change without notice.

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MC50D6	50	40	45	36	4BT3.9-G2	BCI184H	1750*780*1500	950	10.1
MC75D6	75	60	68	55	4BTA3.9-G2	UCI224D	1950*800*1500	980	13.8
MC100D6	100	80	90	72	4BTAA3.9-G11	UCI224F	1950*800*1500	1020	16
MC125D6	125	100	113	90.4	6BT5.9-G1	UCI274C	2300*850*1700	1280	24
MC150D6	150	120	137.5	110	6BTA5.9-G2	UCI274D	2300*850*1720	1450	27
MC165D6	165	132	150	120	6BTAA5.9-G2	UCI274E	2480*850*1720	1520	28.5
MC185D6	185	148	168	134.4	6BTAA5.9-G12	UCI274F	2480*850*1720	1560	32
MC220D6	220	176	200	160	6CTA8.3-G2	UCI274F	2650*900*1720	1700	42.6
MC250D6	250	200	225	180	6CTAA8.3-G2	UCI274G	2680*900*1720	1750	44
MC275D6	275	220	250	200	6CTAA8.3-G7	UCI274H	2680*900*1720	1780	49
MC300D6	300	240	275	220	6LTAA8.9-G2	UCDI274J	2800*950*1750	1800	51
MC330D6	330	264	300	240	6LTAA8.9-G3	UCDI274K	2800*950*1750	1950	55
MC350D6	350	280	312.5	250	NTA855-G1	UCDI274K	3200*1100*1700	3160	66
MC385D6	385	308	350	280	NTA855-G1B	HCI444D	3300*1100*1700	3350	74.5
MC440D6	438	350	394	315.2	NTA855-G3	HCI444D	3420*1150*1720	3600	79
MC500D6	500	400	440	352	KTA19-G2	HCI444E	3600*1350*1920	4100	92
MC550D6	550	440	500	400	KTA19-G3	HCI444F	3600*1400*1920	4150	99
MC625D6	625	500	563	450.4	KTA19-G4	HCI544C	3600*1400*1900	4100	112
MC660D6	660	528	600	480	KTAA19-G5	HCI544D	3720*1540*1960	4400	117
MC700D6	700	560	630	504	QSK19-G4	HCI544D	3750*1550*1960	4500	115
MC750D6	750	600	687.5	550	KTAA19-G6A	HCI544E	3780*1640*2040	4600	134
MC850D6	850	680	775	620	KT38-G	HCI544F	4400*1720*2200	6650	155
MC1000D6	1000	800	905	724	KTA38-G2	LVI634C	4550*1750*2200	6950	183
MC1100D6	1100	1000	1000	800	KTA38-G2A	LVI634D	4600*1800*2200	7200	201
MC1250D6	1250	1125	1125	900	KTA38-G4	LVI634E	4700*1800*2200	7600	229
MC1375D6	1375	1100	1250	1000	KTA38-G9	LVI634F	4900*1800*2200	7800	252
MC1450D6	1450	1160	1200	960	QSK38-G5	LVI634F	4800*1800*2300	7900	235
MC1550D6	1550	1240	1400	1120	KTA50-G3	LVI634G	5700*2100*2350	9800	285
MC1750D6	1750	1400	1600	1280	QSK50-G3	PI734A	5700*2100*2350	10200	300
MC1875D6	1875	1500	1700	1360	KTA50-G9	PI734B	5800*2100*2350	10500	318
MC2500D6	2500	2000	2250	1800	QSK60-G7	PI734F	5800*2200*2500	13000	440

Note: For Canada, USA if need UL, CSA, then a little different cost and delivery time.

For Australia, New Zealand, the canopy tank and output breaker will be different standard.

