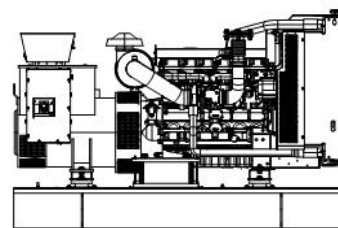


# Mains Power

<http://www.ycgenerator.com>



## Diesel Generator Sets Power by UK Perkins



### 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 12 months from the date of commissioning or 18 months from shipping, whichever occurs first.
- ※ Convenience for operation and maintenance, backed by Perkins global service network.

## INTERNATIONAL STANDARD

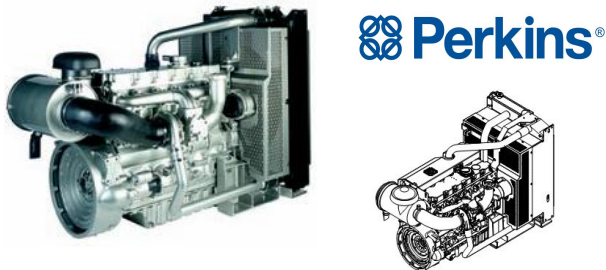
**3P4W, 50Hz @ 1500RPM, 400/230V**  
(380/220V and 415/240V are for optional)

60hz, 1800rpm, 208V, 480V will be different technical data.

## SCOPE SUPPLY

- UK Perkins Diesel Engine with radiator.
- Reliable alternator: Leroy Somer, Marathon, ENGGA.
- Heavy duty steel skid with vibration-damping.
- Base service fuel tank inside skid(up to 800KW)
- Lead acid batteries with cable for starter.
- Industrial silencer & flexible exhaust below.
- Mounted control panel: Digital auto controller.

## ENGINE SPECIFICATION



### UK Perkins Benefits

**Power to Meet your needs:** Hitting the key power nodes, provide a clean & cost effective power solution.

**State of Art Design:** Common-rail fuel system, high power density, low exhaust emissions with the minimum of heat rejection and excellent fuel economy.

**World-class Product Support:** Network of 4000 distributors and service outlets, easy specify & order part online guides and service tools.

**Long-term Power Solution:** Designed to fully comply with EU Stage II emissions regulations, providing an emissions compliant power solution for the future.

## Benefits:

- ※ Function stability credibility, service convenient.
- ※ Low operating cost results in optimal economy.
- ※ Gets the job done wherever you are.
- ※ Easy for installation, operation and maintenance.

## CONTROL SYSTEM AND PROTECTION

※ Controllers are available for all applications. It contains Deep Sea, ComAp or other famous brands. According to their different functions, the control systems can be specified into key start controller model, automatic start control model 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)  $< 2\%$

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 paralleling with mains or other generators, standard 2/3 pitch stator windings avoid excessive neutral currents.

Backed by worldwide service network.

## CONTROL SYSTEM

### 1. Standard: DSE6020 AutoStart---UK Deepsea

Designed to work with electronic and non-electronic simultaneously

Display parameter: KVA, KW, PF, KVAR, KWh, KVAh, KVARH

Display parameter of mains: Frequency (HZ) and Voltage (V)

Includes 7 inputs and 6 outputs

Free download the software, with normal USB line for connecting the PC to the controller

Oil pressure and engine temperature sensors have self-checking function.

Even log ( 5 events)



**DSE6020**

**2.Option: Deepsea DES-7320 Digital Auto Start (AMF)  
(Option assembled with the ATS)**

**Communication (USB, RS232, RS485)**

SMS Messaging; Remote Communications; Remote Control; Building Management; PC Software

**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
- ※ Over-current
- ※ Periodic maintenance



**DSE7320**

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. It includes the additional capability of being able to monitor a mains (utility) supply. Optionally assembled with the ATS, it can carry out auto-switching between mains power and generating set power.(AMF)

**Optional Parts:**

Engine	Alternator	Fuel System	Canopy
<ul style="list-style-type: none"> <li>● Heater 2KW&amp;4KW (Coolant &amp; Lube Oil)</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@7m)</li> <li>● Normal silent (75-78Db@7m)</li> <li>● Soundproof type (20ft/40ft container)</li> </ul>
Lub.oil 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>● Auto-paralleling control panel</li> <li>● Auto Transfer/changeover Switch(ATS)</li> </ul>



Circuit Breaker



Paralleling/synchronizing System



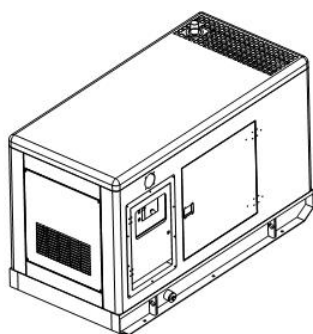
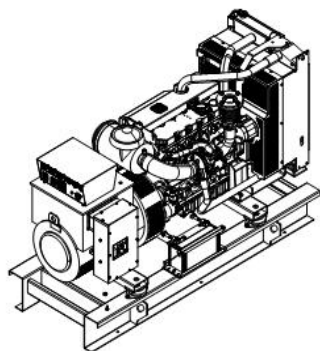
ATS



Super silent canopy

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

Genset Model	Standby		Prime		Engine Model	Alternator Leroy Somer	Fuel Cons (L/h)	Dimension (L*W*H mm)	Weight (kgs)
	KVA	KW	KVA	KW					
MP10E	10	8	9	7	403D-11G	LSA40VS1	2.6	1320*700*1200	420
MP15E	15	12	13	10	403D-15G	LSA40VS2	3.7	1320*700*1200	450
MP22E	22	18	20	16	404D-22G	LSA40M5	5.3	1320*700*1200	540
MP33E	33	26	30	24	1103A-33	LSA42.2L9	7.1	1650*760*1254	750
MP50E	50	40	45	36	1103A-33T	LSA43.2S25	10.7	1650*760*1254	850
MP66E	66	53	60	48	1103A-33T	LSA43.2M45	13.9	1650*760*1254	890
MP88E	88	70	80	64	1104A-44T	LSA43.2L8	18.7	1910*815*1320	1040
MP110E	110	88	100	80	1104C-44TA	LSA44.2VS45	22.6	1935*815*1320	1150
MP150E	150	120	135	108	1106A-70T	LSA44.2S75	35	2250*950*1545	1410
MP165E	165	132	150	120	1106A-70TA	LSA44.2M95	41.6	2250*950*1545	1490
MP200E	200	160	180	144	1106A-70TA	LSA46.2M3	45.8	2250*950*1545	1650
MP220E	220	176	200	160	1106A-70TA	LSA46.2M5	46.9	2250*950*1545	1730
MP250E	250	200	225	180	1206A-E70TTAG2	LSA46.2L6	53	2650*1050*1545	2200
MP275E	275	220	250	200	1206A-E70TTAG3	LSA46.2L6	56.9	2650*1050*1545	2250
MP330E	330	264	300	240	1506A-E88TAG5	LSA46.2VL12	61	2750*1120*1650	2360
MP400E	400	320	350	280	2206C-E13TAG2	LSA47.2VS1	71	3200*1150*1990	3120
MP440E	440	352	400	320	2206C-E13TAG3	LSA47.2S4	81	3275*1150*1900	3160
MP500E	500	400	455	364	2506C-E15TAG1	LSA47.2S5	95	3440*1150*1990	3690
MP550E	550	440	500	400	2506C-E15TAG2	LSA47.2M7	100	3440*1150*1990	3740
MP660E	660	528	600	480	2806C-E18TAG1A	LSA47.2L9	123	3450*1250*1990	4120
MP700E	700	560	650	520	2806A-E18TAG2	LSA49.1S4	132	3450*1250*1990	4160
MP825E	825	660	750	600	4006-23TAG2A	LSA49.1M65	157	3890*1720*2250	5730
MP880E	880	704	800	640	4006-23TAG3A	LSA49.1M75	172	3890*1720*2250	5740
MP1000E	1000	800	940	750	4008TAG1A	LSA49.1L11	201	4690*2070*2300	7100
MP1100E	1100	880	1000	800	4008TAG2	LSA50.2S3	220	4690*2070*2300	7240
MP1375E	1375	1100	1250	1000	4012-46TWG2A	LSA50.2M6	259	4820*2100*2450	11900
MP1500E	1500	1200	1350	1080	4012-46TWG3A	LSA50.2L7	262	4820*2100*2450	11950
MP1650E	1650	1320	1500	1200	4012-46TAG2A	LSA50.2L8	328	4850*2100*2500	12100
MP1875E	1875	1500	1705	1364	4012-46TAG3A	LSA50.2VL10	370	4850*2100*2500	12600
MP2000E	2000	1600	1844	1475	4016TAG1A	LSA51.2S55	389	5850*2200*2550	13510
MP2250E	2250	1800	2058	1646	4016TAG2A	LSA51.2M60	447	5960*2200*2550	13620
MP2500E	2500	2000	2250	1800	4016-61TRG3	LSA51.2VL85	473	6000*2800*3120	14360



Shenzhen Mains Power Co., Limited  
 Add: 7A-1603, RongHu Center Garden, PingJi Avenue,  
 PingHu, LonGang Dist., Shenzhen, China  
 Tel: 0086-755-89215089 Fax: 0086-755-89215089  
 Email: dicconluo@hotmail.com

 **Perkins®**



**208-480V, 1800RPM, 60HZ, 3 phase 4 wire**

Genset Model	Standby		Prime		Engine Model	Cylinder No.	Fuel Consump	Dimension (L*W*H mm)	Weight (kgs)
	KVA	KW	KVA	KW					
MP12E6	12	10	11	9	403D-11G	3	3	1320*700*1200	420
MP17E6	17	14	16	13	403D-15G	3	4.3	1320*700*1200	500
MP27E6	27	22	24	19	404D-22G	4	6.5	1320*700*1200	520
MP38E6	38	30	35	28	1103A-33G	3	8.6	1700*770*1245	730
MP60E6	60	48	53	42	1103A-33TG1	3	12.9	1700*770*1245	780
MP75E6	75	60	68	54	1103A-33TG2	3	16.6	1700*770*1245	870
MP85E6	85	68	75	60	1104A-44TG1	4	17.8	2100*815*1395	970
MP100E6	100	80	90	72	1104A-44TG2	4	22.3	2100*815*1395	1020
MP125E6	125	100	112	90	1104C-44TAG2	4	26.9	2100*815*1395	1100
MP165E6	165	132	150	120	1006TAG	6	37.6	2350*930*1500	1290
MP190E6	190	152	170	136	1106C-E66TAG3	6	39.1	2550*960*1600	1470
MP230E6	230	184	205	164	1106C-E66TAG4	6	41.3	2550*960*1600	1640
MP270E6	270	216	245	196	1306C-E87TAG4	6	61	2550*960*1600	1850
MP345E6	345	276	313	250	1606A-E93TAG4	6	62	2760*1100*1960	2580
MP440E6	440	352	400	320	2206A-E13TAG2	6	81	3200*1150*2000	3020
MP550E6	550	440	500	400	2506A-E15TAG1	6	102	3450*1150*2000	3540
MP625E6	625	500	570	456	2506A-E15TAG4	6	115	3450*1150*2000	3770
MP690E6	690	552	625	500	2806A-E18TAG1A	6	127	3450*1150*2000	4000
MP750E6	750	600	680	544	2806A-E18TAG3	6	144	3450*1150*2000	4620
MP825E6	825	660	750	600	4006-23TAG2A	6	177	4250*1750*2250	5820
MP940E6	940	752	844	675	4006-23TAG3A	6	200	4250*1750*2250	5930
MP975E6	975	780	884	707	4008TAG1	8	200	4700*2050*2400	8590
MP1100E6	1100	880	1000	800	4008TAG2	8	220	4700*2050*2400	8630
MP1385E6	1385	1108	1250	1000	4012-46TWG2A	12	270	4900*2150*2520	9150
MP1500E6	1500	1200	1365	1092	4012-46TWG3A	12	300	4900*2150*2520	9460
MP1650E6	1669	1335	1510	1208	4012-46TAG2A	12	320	5000*2000*2565	11290
MP1880E6	1880	1504	1710	1368	4012-46TAG3A	12	385	5000*2200*2565	12430