

60 Hz

RATINGS 480 V - 60 Hz			
Standby	kVA	750	
	kWe	600	
Prime	kVA	682	
	kWe	546	

#### **Benefits & features**

### **KOHLER** premium quality

- Design offices using the latest technical innovations
- Modern fully certified factories
- A cutting edge laboratory
- The generating set, its components and a wide range of options have been fully developed, prototype tested, factory built, and production tested

### **KOHLER** premium performances

- Optimized and certified sound levels
- Reliable power, even in extreme conditions
- Optimized fuel consumption
- Compact footprint
- Best quality of electricity, high starting and loading capacity, according to ISO8528-5
- Robust base frames and high-quality enclosures
- Protection of installations and people
- Approved in line with the most stringent standards

### **Engines**

- Premium level engines, in-house or from strong partners
- High power density, small footprint
- Low temperature starting capability
- Long maintenance interval

#### Alternator

- Provide industry leading motor starting capability
- Made in Europe
- Built with a class H insulation and IP23

## Cooling

- A compact and complete solution using a mechanically driven radiator fan
- Designed or optimized by KOHLER
- High temperature and altitude product capacity available

## Base frame and enclosure

- High quality steel with enhanced corrosion resistance
- Highly durable QUALICOAT-certified epoxy paint
- Minimum 1000 hours of resistance to salt spray in accordance with ISO12944
- Ergonomic access to allow easy maintenance and connection of the generator
- Robust design optimized for transportation

GENERAL SPECIFICATIONS	
Engine brand	DOOSAN / HYUNDAI
Alternator commercial brand	KOHLER
Voltage (V)	480/277
Standard Control Panel	APM303
Optional control panel	APM403
Optional Control Panel	APM802
Optional control panel	M80
Consumption @ 100% load ESP (L/h) *	166
Consumption @ 100% load PRP (L/h) *	152
Emission level	Fuel consumption optimization
Type of Cooling	Mechanical driven fan
Performance class	G3

#### **GENERATOR SETS RATINGS**

				Standby Rating P			Prime	Rating
D600U	Voltage	PH	Hz	kWe	kVA	Amps	kWe	kVA
D0000	480/277	3	60	600	750	902	546	682
DIMENSIONS	DIMENSIONS COMPACT VERSION							
Length (mm)						3620		
Width (mm)						1960		
Height (mm)						2122		
Tank capacit	y (L)					600		
Dry weight (I	kg)					3913		
DIMENSIONS	DIMENSIONS SOUNDPROOFED VERSION							
Type soundp	roofing					M240		
Length (mm)						5303		
Width (mm)						1900		
Height (mm)						2661		
Tank capacit	y (L)					600		
Dry weight (I	kg)					5683		
Acoustic pres (100% PRP)	ssure level @	1m ii	n dB(A	) 60Hz		93		
Acoustic pres (100% PRP)	ssure level @	7m ii	n dB(A	) 60Hz		83		



60 Hz

Engine brand  DOOSAN / HYUNDAN Engine ref.  Air inlet system  Fuel  Diesel Fuel  Fuel consumption optimization  V  Number of cylinders  Displacement (I)  Bore (mm) * Stroke (mm)  Compression ratio  Dispeed (RPM)  Maximum stand-by power at rated RPM 60Hz kW)  Charge Air coolant  Frequency regulation, steady state (%)  njection Type  Governor type  Air cleaner type, models  Fuel consumption with cooling system  Fuel consumption @ FSP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz I/h)  Fuel consumption @ 50% of PRP Power 60Hz I/h)  Finission  Emission PM (g/kWh)  Emission PM (g/kWh)  Emission NOx (g/kW.h) Diesel or NG  Diesel Consumption @ 0.62  Emission NOx (g/kW.h) Diesel or NG  Diesel Consumption Diesel or NG  DOOSAN / HYUNDAN  Turbo  DP180LB *  Turbo  Diesel Fuel Fuel consumption  Diesel Fuel Fuel consumption @ 50% of PRP Power 60Hz I/h)  Diesel consumption @ 50% of PRP Power 60Hz I/h)  D	Engine	
Engine ref. Air inlet system Fuel  Emission level  Emission level  Emission level  Cylinder configuration  Number of cylinders  Displacement (I)  Bore (mm) * Stroke (mm)  Compression ratio  Speed (RPM)  Maximum stand-by power at rated RPM 60Hz  kW)  Charge Air coolant  Frequency regulation, steady state (%)  Air cleaner type  Maximum fuel pump flow 60Hz (I/h)  Maximum fuel pump flow 60Hz (I/h)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Emission  Emission PM (g/kWh)  Emission PM (g/kWh)  Emission PM (g/kWh)  Emission NOx (g/kW.h) Diesel or NG  Diesel consumption @ Diesel or NG  Diesel consumption @	General	
Air inlet system  Fuel  Fuel consumption optimization  Cylinder configuration  Number of cylinders  Displacement (I)  Bore (mm) * Stroke (mm)  Compression ratio  Speed (RPM)  Maximum stand-by power at rated RPM 60Hz (kW)  Charge Air coolant  Frequency regulation, steady state (%)  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Maximum fuel pump flow 60Hz (I/h)  Fuel consumption @ FSP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz (I/h)  Fuel consumption @ 50% of PRP	Engine brand	DOOSAN / HYUNDAI
Diesel Fuel Fuel consumption optimization Cylinder configuration V Number of cylinders Displacement (I) Bore (mm) * Stroke (mm) Compression ratio Speed (RPM) Maximum stand-by power at rated RPM 60Hz kW) Charge Air coolant Frequency regulation, steady state (%) Injection Type Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption @ FSP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz I/h) Fuel consumption @ 50% of PRP Power 60Hz I/h) I/h	Engine ref.	DP180LB *
Emission level  Emission level  Cylinder configuration  Number of cylinders  Displacement (I)  Bore (mm) * Stroke (mm)  Compression ratio  Speed (RPM)  Maximum stand-by power at rated RPM 60Hz kW)  Charge Air coolant  Frequency regulation, steady state (%)  Air/Air  Frequency regulation, steady state (%)  Air cleaner type  Covernor type  Electronic  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz I/h)  Fuel consumption @ 50% of PRP Power 60	Air inlet system	Turbo
cylinder configuration  Cylinder configuration  Number of cylinders  Displacement (I)  Bore (mm) * Stroke (mm)  Compression ratio  Dispeed (RPM)  Maximum stand-by power at rated RPM 60Hz  kW)  Charge Air coolant  Air/Air  Frequency regulation, steady state (%)  Air cleaner type  Governor type  Direct  Governor type  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Finissions  Emission PM (g/kWh)  Consumsion NOx (g/kW.h) Diesel or NG  Table 13.60	Fuel	Diesel Fuel
Number of cylinders  Displacement (I)  Bore (mm) * Stroke (mm)  Compression ratio  Speed (RPM)  Maximum stand-by power at rated RPM 60Hz  kW)  Charge Air coolant  Frequency regulation, steady state (%)  Air/Air  Frequency regulation, steady state (%)  Air cleaner type  Governor type  Electronic  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Finissions  Emission PM (g/kWh)  Consumssion CO (g/kW.h)  Diesel or NG  13.60	Emission level	·
Displacement (I)  Bore (mm) * Stroke (mm)  Compression ratio  Dispeed (RPM)  Maximum stand-by power at rated RPM 60Hz kW)  Charge Air coolant  Frequency regulation, steady state (%)  Air/Air  Frequency regulation, steady state (%)  Air cleaner type  Direct  Fovernor type  Electronic  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz II/h)  Fuel consumption @ 50% of PRP Power 60Hz II/h)  Fuel consumption @ 50% of PRP Power 60Hz II/h)  Fuel consumption @ 50% of PRP Power 60Hz II/h)  Fuel consumption @ 50% of PRP Power 60Hz II/h)  Finission PM (g/kWh)  Consission CO (g/kW.h)  Emission NOx (g/kW.h) Diesel or NG  13.60	Cylinder configuration	V
Bore (mm) * Stroke (mm)  128 * 142  Compression ratio  15 : 1  Speed (RPM)  Maximum stand-by power at rated RPM 60Hz kW)  Charge Air coolant  Frequency regulation, steady state (%)  Air/Air  Frequency regulation, steady state (%)  Air cleaner type  Direct  Governor type  Electronic  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz I/h)  Fuel consumption @ 50% of PRP Power 60Hz I/h)  Fuel consumption @ 50% of PRP Power 60Hz I/h)  Fuel consumption @ 50% of PRP Power 60Hz I/h)  Fuel consumption @ 50% of PRP Power 60Hz I/h)  Finission PM (g/kWh)  Consission CO (g/kW.h)  Emission NOx (g/kW.h) Diesel or NG  13.60	Number of cylinders	10
Compression ratio  Deped (RPM)  Maximum stand-by power at rated RPM 60Hz kW)  Charge Air coolant  Erequency regulation, steady state (%)  Direct  Governor type  Direct  Air cleaner type, models  Dry  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Finission PM (g/kWh)  Consumption PM (g/kWh)  Consission PM (g/kWh)  Diesel or NG  13.60	Displacement (I)	18.27
Air/Air Frequency regulation, steady state (%)  Air/Air Frequency regulation, steady state (%)  Air/Air Frequency regulation, steady state (%)  Air cleaner type  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Finissions  Emission PM (g/kWh)  Consumption O.0660  Emission CO (g/kW.h)  Diesel or NG  13.60	Bore (mm) * Stroke (mm)	128 * 142
Maximum stand-by power at rated RPM 60Hz kW)  Charge Air coolant  Frequency regulation, steady state (%)  Air/Air  Frequency regulation, steady state (%)  Air - 0.25%  Injection Type  Direct  Bovernor type  Electronic  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Emission PM (g/kWh)  O.0660  Emission CO (g/kW.h)  Emission NOx (g/kW.h) Diesel or NG  13.60	Compression ratio	15:1
kW)  Charge Air coolant  Frequency regulation, steady state (%)  njection Type  Direct Governor type  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Finission PM (g/kWh)  O.0660  Emission CO (g/kW.h)  Emission NOx (g/kW.h) Diesel or NG  13.60	Speed (RPM)	1800
Frequency regulation, steady state (%) +/- 0.25%  njection Type Direct  Governor type Electronic  Air cleaner type, models Dry  Fuel system  Maximum fuel pump flow 60Hz (I/h) 630  Max head on fuel return line (m fuel) 1  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h) 165.30  Fuel consumption @ PRP Max Power 60Hz (I/h) 150.70  Fuel consumption @ 75% of PRP Power 60Hz 114.20  I/h)  Fuel consumption @ 50% of PRP Power 60Hz 77.70  Emissions  Emission PM (g/kWh) 0.0660  Emission CO (g/kW.h) Diesel or NG 13.60	Maximum stand-by power at rated RPM 60Hz (kW)	661
Direct Governor type Governor type Electronic Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Finissions  Emission PM (g/kWh)  Concept Substituting Substitutin	Charge Air coolant	Air/Air
Governor type  Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h)  Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  I 13.60	Frequency regulation, steady state (%)	+/- 0.25%
Air cleaner type, models  Fuel system  Maximum fuel pump flow 60Hz (I/h) 630  Max head on fuel return line (m fuel) 1  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h) 165.30  Fuel consumption @ PRP Max Power 60Hz (I/h) 150.70  Fuel consumption @ 75% of PRP Power 60Hz 114.20  I/h)  Fuel consumption @ 50% of PRP Power 60Hz 77.70  Finissions  Emission PM (g/kWh) 0.0660  Emission CO (g/kW.h) 0.62  Emission NOx (g/kW.h) Diesel or NG 13.60	Injection Type	Direct
Maximum fuel pump flow 60Hz (I/h) 630  Max head on fuel return line (m fuel) 1  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h) 165.30  Fuel consumption @ PRP Max Power 60Hz (I/h) 150.70  Fuel consumption @ 75% of PRP Power 60Hz 114.20  I/h)  Fuel consumption @ 50% of PRP Power 60Hz 177.70  Finissions  Emission PM (g/kWh) 0.0660  Emission CO (g/kW.h) Diesel or NG 13.60	Governor type	Electronic
Maximum fuel pump flow 60Hz (I/h) 630  Max head on fuel return line (m fuel) 1  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h) 165.30  Fuel consumption @ PRP Max Power 60Hz (I/h) 150.70  Fuel consumption @ 75% of PRP Power 60Hz 114.20  I/h)  Fuel consumption @ 50% of PRP Power 60Hz 77.70  Finissions  Emission PM (g/kWh) 0.0660  Emission CO (g/kW.h) 0.62  Emission NOx (g/kW.h) Diesel or NG 13.60	Air cleaner type, models	Dry
Max head on fuel return line (m fuel)  Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Finissions  Finission PM (g/kWh)  Concept Signal Signa	Fuel system	
Consumption with cooling system  Fuel consumption @ ESP Max Power 60Hz (I/h) 165.30  Fuel consumption @ PRP Max Power 60Hz (I/h) 150.70  Fuel consumption @ 75% of PRP Power 60Hz 114.20  I/h)  Fuel consumption @ 50% of PRP Power 60Hz 77.70  Emissions  Emission PM (g/kWh) 0.0660  Emission CO (g/kW.h) 0.62  Emission NOx (g/kW.h) Diesel or NG 13.60	Maximum fuel pump flow 60Hz (I/h)	630
Fuel consumption @ ESP Max Power 60Hz (I/h)  Fuel consumption @ PRP Max Power 60Hz (I/h)  Fuel consumption @ 75% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)  I/h)  Fuel consumption @ 50% of PRP Power 60Hz  I/h)	Max head on fuel return line (m fuel)	1
Fuel consumption @ PRP Max Power 60Hz (I/h) 150.70  Fuel consumption @ 75% of PRP Power 60Hz 114.20 I/h) 114.20 Fuel consumption @ 50% of PRP Power 60Hz 77.70 I/h) 77.70  Fmissions  Fmission PM (g/kWh) 0.0660  Emission CO (g/kW.h) 0.62  Emission NOx (g/kW.h) Diesel or NG 13.60	Consumption with cooling system	
Fuel consumption @ 75% of PRP Power 60Hz       114.20         I/h)       114.20         Fuel consumption @ 50% of PRP Power 60Hz       77.70         I/h)       77.70         Emissions       0.0660         Emission PM (g/kWh)       0.062         Emission NOx (g/kW.h) Diesel or NG       13.60	Fuel consumption @ ESP Max Power 60Hz (I/h)	165.30
1/h	Fuel consumption @ PRP Max Power 60Hz (I/h)	150.70
### 77.70  #################################	Fuel consumption @ 75% of PRP Power 60Hz (I/h)	114.20
Emission PM (g/kWh) 0.0660 Emission CO (g/kW.h) 0.62 Emission NOx (g/kW.h) Diesel or NG 13.60	Fuel consumption @ 50% of PRP Power 60Hz (I/h)	77.70
Emission CO (g/kW.h) 0.62 Emission NOx (g/kW.h) Diesel or NG 13.60	Emissions	
Emission NOx (g/kW.h) Diesel or NG 13.60	Emission PM (g/kWh)	0.0660
(3.	Emission CO (g/kW.h)	0.62
Emission HC (g/kW.h) 0.13	Emission NOx (g/kW.h) Diesel or NG	13.60
	Emission HC (g/kW.h)	0.13

Lubrication System				
Dil system capacity including filters (I) 34				
Min. oil pressure (bar)	0.50			
Max. oil pressure (bar)				
Oil sump capacity (I)				
Oil consumption 100% ESP 60Hz (I/h)	0.70			
Air Intake system				
Max. intake restriction (mm H2O)	220			
Combustion air flow (I/s)	758			
Exhaust system				
	PRP	ESP		
Exhaust gas flow (L/s)		2350		
Exhaust gas temperature @ ESP (°C)	540			
Heat rejection to exhaust (kW)	620			
Max. exhaust back pressure (mm H2O)	600			
Cooling system				
Radiator & Engine capacity (I)	1	23		
Fan power 60Hz (kW)	38			
Fan air flow w/o restriction (m3/s)	16			
Available restriction on air flow (mm H2O)				
Type of coolant	Glycol-Ethylene			
Radiated heat to ambiant (kW)	63			
Heat rejection to coolant HT (kW)	297			
Coolant capacity HT, engine only (I)	21			
Max coolant temperature, Shutdown (°C)	103			
Thermostat begin of opening HT (°C)	71			
Thermostat end of opening HT (°C)	mostat end of opening HT (°C) 85			

<sup>\*</sup> Engine reference may be partially modified depending on genset application, options selected by the customer and lead time required.



60 Hz

Alternator commercial brand	
	KOHLER
Kohler Alternator description	KH02713T
Number of pole	4
Number of bearing	Single Bearing
Гесhnology	Brushless
ndication of protection	IP23
nsulation class	Н
Number of wires	12
AVR Regulation	Yes
Coupling	Direct
Capacity for maintaining short circuit at B In for 10 s	Yes
Application data	
Overspeed (rpm)	2250
Power factor (Cos Phi)	0.80
Voltage regulation at established rating (+/- %)	0,50
Wave form : NEMA=TIF	<40
Nave form : CEI=FHT	<2
Fotal Harmonic Distortion in no-load DHT (%)	2.4
Fotal Harmonic Distortion, on linear oad DHT (%)	2.2
Recovery time (Delta U = 20% rranscient) (ms)	200
Performance datas	
Continuous Nominal Rating 40°C kVA)	750
Jnbalanced load acceptance ratio %)	8

Peak motor starting (kVA) based on x% voltage dip power factor at 0.3

### **Alternator Standard Features**

- All models are brushless, rotating-field alternators
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- The AVR voltage regulator provides superior short circuit capability
- Self-ventilated and dip proof construction
- Superior voltage waveform

Note: See Alternator Data Sheets for alternator application data and ratings, efficiency curves, voltage dip with motor starting curves, and short circuit decrement curves.



60 Hz

### **Dimensions compact version**

3620 * 1960 * 2122
3913
600



## M240 - Dimensions soundproofed version

Length (mm) * Width (mm) * Height (mm)	5303 * 1900 * 2661
Dry weight (kg)	5683
Tank capacity (L)	600
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	93
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	83



## **Dimensions DW compact version**

Length (mm) * Width (mm) * Height (mm)	5367 * 1960 * 2397
Dry weight (kg)	4879
Tank capacity (L)	2175



## M240 - Dimensions DW soundproofed version

5367 * 1960 * 2933
6589
2175
93
83

<sup>\*</sup> dimensions and weight without options



60 Hz

### **M80**



The M80 is a dual-function control panel. It can be used as a basic terminal block for connecting a control unit and as an instrument panel with a direct read facility, with displays giving a global view of your generating set's basic parameters. Offers the following functions:

- Engine parameters: tachometer, working hours counter, coolant temperature indicator, oil pressure indicator
- emergency stop button
- customer connection terminal block
- CE certified

## **APM303**



The APM303 is a versatile unit which can be operated in manual or automatic mode. It offers the following features:

- Measurements: phase-to-neutral and phase-to-phase voltages, fuel level (In option: active power currents, effective power, power factors, Kw/h energy meter, oil pressure and coolant temperature levels)
- Supervision: Modbus RTU communication on RS485
- Reports: (In option : 2 configurable reports)
- Safety features: Overspeed, oil pressure, coolant temperatures, minimum and maximum voltage, minimum and maximum frequency (Maximum active power P<66kVA)</li>
- Traceability: Stack of 12 stored events

For further information, please refer to the data sheet for the APM303

## **APM403**



#### BASIC GENERATING SET AND POWER PLANT CONTROL

The APM403 is a versatile control unit which allows operation in manual or automatic mode

- Measurements : voltage and current
- kW/kWh/kVA power meters
- Standard specifications: Voltmeter, Frequency meter.
- Optional: Battery ammeter.
- J1939 CAN ECU engine control
- Alarms and faults: Oil pressure, Coolant temperature, Overspeed, Startup failure, alternator min/max, Emergency stop button.
- Engine parameters: Fuel level, hour counter, battery voltage.
- Optional (standard at 24V): Oil pressure, water temperature.
- Event log/ Management of the last 300 genset events.
- Mains and genset protection
- Clock management
- USB connections, USB Host and PC,
- Communications : RS485 INTERFACE
- ModBUS protocol /SNMP
- Optional: Ethernet, GPRS, remote control, 3G, 4G,
- Websupervisor, SMS, E-mails

## **APM802**



## ADVANCED POWER PLANT MANAGEMENT CONTROL

Dedicated to power plant management APM802 provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility

- Graphic display with touchscreen
- User language selectable
- Specially researched ergonomics
- High level of equipment availability
- USB and Ethernet ports
- Modbus protocol
- Making it easy to extend the installation
- Complies with the international standard IEC 61131-3

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit; Fuel density at 0.85 kg/L.

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice.



60 Hz

#### STANDARD SCOPE OF SUPPLY

All our gensets are fitted with:

- Industrial water cooled DIESEL engine
- Electric starter & charge alternator
- Standard air filter
- Schneider or ABB electric circuit breaker, adapted to the short-circuit current of the generating set
- Single bearing alternator IP 23 T° rise/insulation to class H/H
- Welded steel base frame with 85% vibration attenuation mounts
- 4 lifting points on the chassis, lifting bar on the top included from 165 kVA ESP or optional
- highly durable QUALICOAT certified epoxy paint
- frame height optimized to allow it to be moved safely by forklift
- enclosure made of new high-quality European steel with enhanced corrosion resistance
- IP 64 locks, made from stainless materials
- enclosures and base frames tested and analyzed by the French Corrosion Institut
- 100% of tanks tested for permeability
- Personal protection ensured by protective grilles on hot and rotating parts
- Separate 9 dB(A) silencer
- Fuel tank welded inside the genset frame
- Retention bund included for gensets up to 110 kVA ESP
- Charged DC starting battery with electrolyte
- Emergency stop button on the outside
- Flexible fuel lines & lub oil drain cock
- Exhaust outlet with flexible and flanges
- User's manual (1 copy)
- Packing under plastic film

#### Excluded from the supply:

- For XPRESS products, from 25 to 1500 kVA: oil and antifreeze liquid

## **CODES AND STANDARDS**

Engine-generators set is designed and manufactured in facilities certified to standards ISO9001:2015 & ISO14001:2015. The generator sets and its components are prototype-tested, factory built and production tested and are in compliance with the relevant standards:

- Machinery Directive 2006/42/EC of May 17th 2006
- EMC Directive 2014/30/UE
- Safety objectives set out in the Low Voltage Directive 2014/35/UE
- EN ISO 8528-13, EN 60034-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 55011, EN 1679-1 et EN 60204-1

## POWER RATINGS DEFINITION according to ISO8528-1 (2018-02 edition) and ISO-3046-1

**Emergency Standby Power (ESP):** The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Average load factor per 24 hours of operation is <70%.

**Prime Power (PRP):** At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour within 12 hour of operation. Average load factor per 24 hours of operation is <70%.

## **TERMS OF USE**

According to the standard, the nominal power assigned by the genset is given for 25°C Air Intlet Temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30% relative humidity. For particular conditions in your installation, refer to the derating table.