

Engine Specifications		
Brand		PERKINS
Model		4012-46TWG2A
Engine Power Stand BY	(kWm / hp)	1166/1563
Revolution Per Minute	(r.p.m.)	1500
Total Displacement	(L)	45.84
Cylinders Orientation		12 V TYPE
Bore x Stroke	(mm x mm)	160 x 190
Compression Orientation		13,6:1
Governor Type		ELECTRONIC
Aspiration System		TURBO AAC
Injection		DIRECT
Cooling		WATER COOLED
Electrical System	(VDC)	24
Lub-Oil Capacity	(L)	177
Engine Coolant Capacity	(L)	201
Fuel Tank Capacity	(L)	1440
Maximum Exhaust Temperature	(°C)	459
Maximum Exhaust Gas Flow	(m3/h)	201
Maximum Allowed Back Pressure	(kPa)	29
Cooling Air Flow	(m3/min)	1600
Fuel Consumption 50 %	(L/h)	143
Fuel Consumption 75 %	(L/h)	196
Fuel Consumption 100 %	(L/h)	259

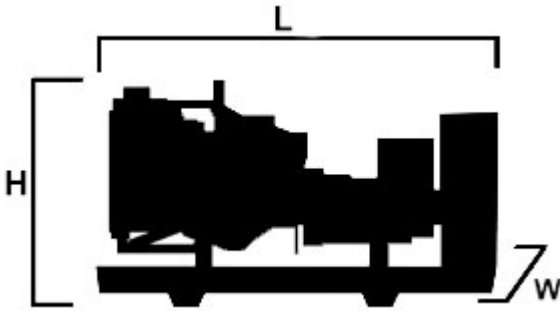
• Replacable cylinder jacket • Dry type replacable oil filter • Heat-resistant radiator for 50 °C

Alternator Specifications		
Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	94.6
Overloading		110 % FOR 1 HOUR
Power Factor	(cos Phi)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		4
Number Of Bearing		SINGLE

• 4 Poles, Self-Excitation and Self-Cooled, Brushless, Synchronotype alternator
• Electronic type automatic voltage regulator (AVR)

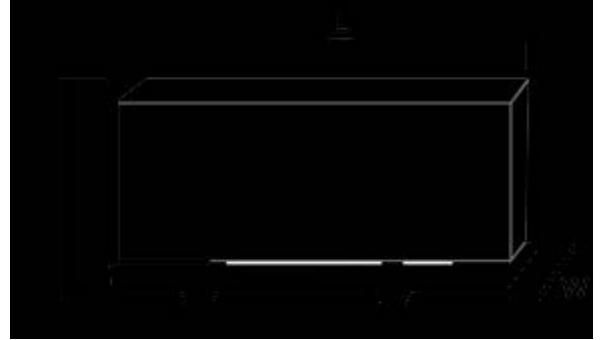
Dimensions Without Canopy

Dimensions and Weight		
Length (L)	mm	5000
Height (H)	mm	2550
Width (W)	mm	2100
Wet weight	kg	10500
Fuel Tank Capacity	L	1440



Dimensions With Canopy

Dimensions and Weight		
Length (L)	mm	6000
Height (H)	mm	2700
Width (W)	mm	2200
Wet weight	kg	11500
Fuel Tank Capacity	L	1440



Control Panel Features

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable language
- Waveform display of V & I
- Harmonic analysis of V & I
- Synchroscope & check synch
- Allows closed transfers
- 16Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple nominal conditions
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge0 run enabled
- Combat mode support
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem & Ethernet diagnostics
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (USB & RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with standard gasket