



Engine Specifications		
Brand		PERKINS
Model		4012-46TAG2A
Engine Power Stand BY	(kWm / hp)	1395/1870
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)	207
Fuel Tank Capacity	(L)	
Maximum Exhaust Temperature	(°C)	460
Maximum Exhaust Gas Flow	(m3/h)	215
Maximum Allowed Back Pressure	(kPa)	32
Cooling Air Flow	(m3/min)	1956
Fuel Consumption 50 %	(L/h)	157
Fuel Consumption 75 %	(L/h)	234
Fuel Consumption 100 %	(L/h)	310

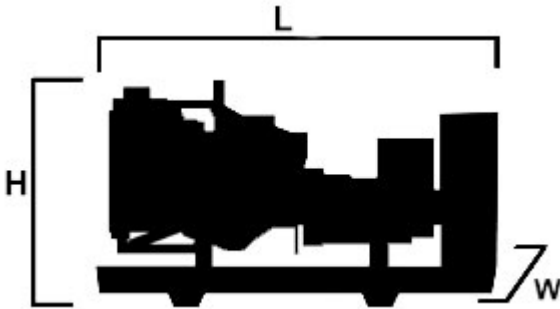
• Replacable cylinder jacket • Dry type replacable oil filter • Heat-resistant radiator for 50 °C

Alternator Specifications		
Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	95.9
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)

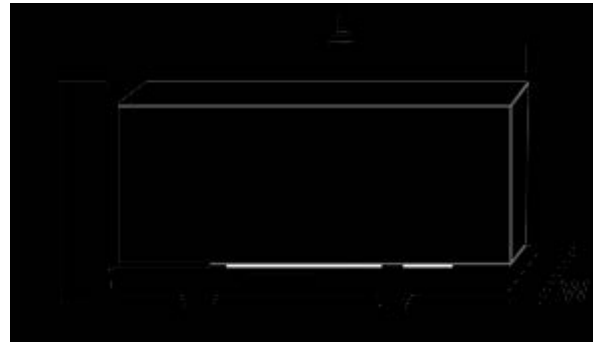
### Dimensions Without Canopy

Dimensions and Weight		
Length ( L )	mm	5250
Height ( H )	mm	2620
Width ( W )	mm	2400
Wet weight	kg	11800
Fuel Tank Capacity	L	



### Dimensions With Canopy

Dimensions and Weight		
Length ( L )	mm	6500
Height ( H )	mm	2800
Width ( W )	mm	2420
Wet weight	kg	13150
Fuel Tank Capacity	L	



### 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