

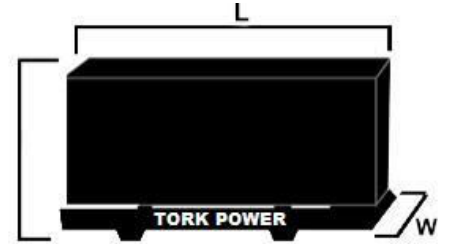
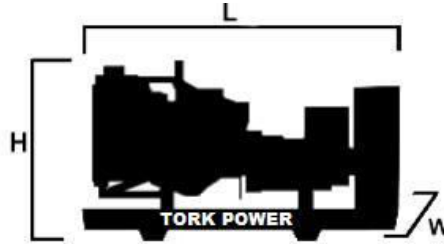
Generating Rates		PRIME	STANDBY
Power	kVA	45	50
Power	kW	36	40
Current	(cos Phi=0,8) A	65	72
Standard Voltage	V	400/230	
Revolution Per Minute	r.p.m.	1500	
Rated at power factor	CosPhi	0,8	

### Standard Features

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel - engine
- Protection system on manual run
- Flexible oil pipes and oil draining valve
- Pre-heater
- Lubrication oil and anti-freeze
- 4 Poles, synchrotype, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis
- Industrial type silencer -
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

### Optional Equipments

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system ( Automatic / Manuel )
- Analog indicators
- 1 Phase - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control and monitoring



**Stand By Power :** Supplying of emergency electrical power at variable load, in the event of normal utility power failure. This rating is maximum power, no overload capability is available.

**Prime Power :** Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility power failure. 10% over load capability is available.

Engine Specifications		
Brand		PERKINS
Model		1103A-33TG1
Engine Power Stand BY	(kWm / hp)	46.5/52.4
Revolution Per Minute	(r.p.m.)	1500
Total Displacement	(L)	3.3
Cylinders Orientation		3 SINGLE LINE
Bore x Stroke	(mm x mm)	105 x 127
Compression Orientation		17.25:1
Governor Type		MECHANIC
Aspiration System		TURBO CHARGE
Injection		DIRECT
Cooling		WATER COOLED
Electrical System	(VDC)	12
Lub-Oil Capacity	(L)	7.9
Engine Coolant Capacity	(L)	10.2
Fuel Tank Capacity	(L)	176
Maximum Exhaust Temperature	(°C)	492
Maximum Exhaust Gas Flow	(m3/H)	7
Maximum Allowed Back Pressure	(kPa)	10
Cooling Air Flow	(m3/min)	53
Fuel Consumption 50%	(L/h)	5.7
Fuel Consumption 75%	(L/h)	8.2
Fuel Consumption 100%	(L/h)	10.7

-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	(%)	89.1
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, Brushless, Synchronotype alternator

-Electronic type automatic voltage regulator (AVR)

-Self-Cooled



Kalite Yönetim Sistemi  
TS EN ISO/IEC 17021  
AB-0092-YS

JAS-ANZ



M4340901D



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World Accreditation Services



ISO 9001  
ISO 14001  
OHS 18001  
FSMS 22000

### DIMENSIONS **WITHOUT** CANOPY

Dimensions and Weight		
Length ( L )	mm	2200
Height ( H )	mm	1700
Width ( W )	mm	1000
Wet weight	kg	810
Fuel Tank Capacity	L	176

### DIMENSIONS **WITH** CANOPY

Dimensions and Weight		
Length ( L )	mm	2400
Height ( H )	mm	1800
Width ( W )	mm	1000
Wet weight	kg	1050
Fuel Tank Capacity	L	176



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## 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
- 3 configurable service alarms
- Multiple nominal conditions
- Multiple automatic exerciser
- Mains power counters

- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- 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 charge run enabled
- Combat mode support
- Conductor & MCB drive
- 4 Quadrant genset power counters
- Fuel filling counter
- Fuel consumption counter



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