

# PERKINS 825-1250 kVA

## Technical Specifications



### ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge cooled
- Direct injection
- Electronic governor system
- 24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Tropical type radiator
- Flexible fuel pipe
- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

### QUALITY STANDARD

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, TS ISO 8528, TS EN ISO 3744, TS EN ISO 3746, TS EN 60034-1, TS EN 60204-1, TS EN 60335-1, TS EN 61439-1, EN 61000, TS EN ISO12100 standards.

We have ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO10002:2006 management system certificates from Kiwa & MEYER, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

### ALTERNATOR

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure

- The alternator windings are protected by insulating varnish against oil and acid.

### EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter
- PMG warning system

### CANOPY

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window

### AUTOMATIC CONTROL PANEL

- LCD display screen
- Battery charger
- Hardware and materials needed
- USB port & RS-485 output

### GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Low oil pressure
- High & low engine speed
- Low radiator water level
- Over current load
- High & low genset voltage
- Start/stop failure



Easy maintenance canopy design



Refilling from the outside of the canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender

## PERKINS Series Diesel Generator Sets 825-1250 kVA

MODEL			PR XX 0825	PR XX 0900	PR XX 1002	PR XX 1125	PR XX 1250	
GROUP	GEN - SET POWER	STAND BY	kVA	825	900	1002	1125	1250
			kW	660	720	802	900	1000
		PRIME	kVA	750	800	911	1022	1125
			kW	600	640	729	818	900
	CANOPY DIMENSION (W x L x H) mm			1900 x 5250 x 3330	1900 x 5250 x 3330	2200 x 5550 x 3300	2200 x 5550 x 3300	2200 x 5550 x 3300
	CANOPY WEIGHT kg			6525	6835	9635	9995	10025
	OPEN DIMENSION (W x L x H) mm			1900 x 5000 x 2395	1900 x 5000 x 2395	2200 x 5300 x 2640	2200 x 5300 x 2640	2200 x 5300 x 2640
	OPEN WEIGHT kg			5180	5490	8090	8450	8480
ENGINE	CONTAINER DIMENSION (W x L x H) mm			1900 x 5290 x 3640	1900 x 5290 x 3640	2200 x 5300 x 3390	2200 x 5300 x 3390	2200 x 5300 x 3390
	CONTAINER WEIGHT kg			8100	8100	9700	9800	9800
	BRAND			PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
	TYPE			4006 - 23TAG2A	4006 - 23TAG3A	4008TAG1A	4008TAG2A	4008-30TAG3
	POWER	STAND BY	kW	695	760	855	958	1055
		PRIME	kW	632	679	778	872	947
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			22,921	22,921	30,561	30,561	30,561
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	8 IN LINE	8 IN LINE	8 IN LINE
	BORE AND STROKE (mm x mm)			160 x 190	160 x 190	160 x 190	160 x 190	160 x 190
	COMPRESSION RATIO			13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,1 : 1
	GOVERNOR TYPE			ELECTRONIC				
	INDUCTION			TURBOCHARGED - AIR TO AIR CHARGE COOLED				
	COMBUSTION SYSTEM			DIRECT INJECTION				
	COOLING SYSTEM			WATER				
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		161,00	172,00	195,00	215,00	244,00
		75% OF PRIME POWER		122,00	130,00	143,00	162,00	188,00
50% OF PRIME POWER		83,00	90,00	98,00	111,00	120,00		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			113,4	113,4	153	153	153	
TOTAL COOLANT CAPACITY (lt)			105	105	149	149	140	
FUEL TANK CAPACITY (lt)			1400	1400	2000	2000	2000	

