

# PERKINS 1375-1880 kVA

## Technical Specifications



### ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge cooled / turbocharged & air to water 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 1375-1880 kVA

MODEL				PR XX 1375	PR XX 1385	PR XX 1500	PR XX 1656	PR XX 1880
GROUP	GEN - SET POWER	STAND BY	kVA	1375	1385	1500	1656	1880
			kW	1100	1108	1200	1325	1504
		PRIME	kVA	1250	1250	1350	1505	1710
			kW	1000	1000	1080	1204	1368
	CANOPY DIMENSION (W x L x H) mm			N/A	N/A	N/A	N/A	N/A
	CANOPY WEIGHT kg			N/A	N/A	N/A	N/A	N/A
	OPEN DIMENSION (W x L x H) mm			2200 x 5350 x 2750	2200 x 5350 x 2750	2200 x 5350 x 2750	2200 x 5350 x 2750	2200 x 5350 x 2750
	OPEN WEIGHT kg			8080	8080	8745	8745	9075
ENGINE	CONTAINER DIMENSION (W x L x H) mm			N/A	N/A	N/A	N/A	N/A
	CONTAINER WEIGHT kg			N/A	N/A	N/A	N/A	N/A
	BRAND			PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
	TYPE			4012 - 46TAG0A	4012 - 46TWG2A	4012 - 46TAG1A	4012 - 46TAG2A	4012 - 46TAG3A
	POWER	STAND BY	kW	1158	1166	1263	1395	1583
		PRIME	kW	1053	1055	1148	1267	1440
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			45,842	45,842	45,842	45,842	45,842
	NUMBER OF CYLINDERS			12 - 60° V	12 - 60° V	12 - 60° V	12 - 60° V	12 - 60° V
	BORE AND STROKE (mm x mm)			160 x 190	160 x 190	160 x 190	160 x 190	160 x 190
	COMPRESSION RATIO			13:1	13,6:1	13:1	13,6:1	13,6:1
	GOVERNOR TYPE			ELECTRONIC				
	INDUCTION			TURBOCHARGED - AIR TO AIR CHARGE COOLED	TURBOCHARGED - AIR TO WATER CHARGE COOLED	TURBOCHARGED - AIR TO AIR CHARGE COOLED		
	COMBUSTION SYSTEM			DIRECT INJECTION				
	COOLING SYSTEM			WATER				
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		259,00	258,00	281,00	301,00	370,00
		75% OF PRIME POWER		199,00	196,00	212,00	237,00	275,00
50% OF PRIME POWER		139,00	143,00	154,00	162,00	187,00		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			177	177	177	177	177	
TOTAL COOLANT CAPACITY (lt)			210	210	210	210	210	
FUEL TANK CAPACITY (lt)			2500	2500	2500	2500	3000	

