

# PERKINS 2028-2500 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 2028-2500 kVA

MODEL				PR XX 2028	PR XX 2250	PR XX 2264	PR XX 2500
GROUP	GEN - SET POWER	STAND BY	kVA	2028	2250	2264	2500
			kW	1622	1800	1811,2	2000
		PRIME	kVA	1844	2000	2058	2250
			kW	1476	1600	1646,4	1800
	CANOPY DIMENSION (W x L x H) mm			N/A	N/A	N/A	N/A
	CANOPY WEIGHT kg			N/A	N/A	N/A	N/A
	OPEN DIMENSION (W x L x H) mm			2200 x 6000 x 3140	2200 x 6000 x 3140	2200 x 6000 x 3140	2200 x 6000 x 3140
	OPEN WEIGHT kg			10760	10800	10800	11190
ENGINE	CONTAINER DIMENSION (W x L x H) mm			N/A	N/A	N/A	N/A
	CONTAINER WEIGHT kg			N/A	N/A	N/A	N/A
	BRAND			PERKINS	PERKINS	PERKINS	PERKINS
	TYPE			4016TAG1A	4016 - 61TRG2	4016TAG2A	4016 - 61TRG3
	POWER	STAND BY	kW	1690	1895	1886	2083
			PRIME	kW	1537	1684	1715
	SPEED (rpm)			1500	1500	1500	1500
	CYCLE			4	4	4	4
	DISPLACEMENT (lt)			61,123	61,123	61,123	61,123
	NUMBER OF CYLINDERS			16 - 60° V	16 - 60° V	16 - 60° V	16 - 60° V
	BORE AND STROKE (mm x mm)			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
	GOVERNOR TYPE			ELECTRONIC			
	INDUCTION			TURBOCHARGED - AIR TO AIR CHARGE COOLED	TURBOCHARGED - AIR TO WATER CHARGE COOLED	TURBOCHARGED - AIR TO AIR CHARGE COOLED	TURBOCHARGED - AIR TO WATER CHARGE COOLED
	COMBUSTION SYSTEM			DIRECT INJECTION			
	COOLING SYSTEM			WATER	REMOTE RADIATOR	WATER	REMOTE RADIATOR
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		383,00	422,00	434,00	470,00
		75% OF PRIME POWER		277,00	318,00	327,00	344,00
		50% OF PRIME POWER		185,00	216,00	222,00	234,00
	TOTAL LUBRICATION SYSTEM CAPACITY (lt)			237,2	237,2	237,2	237,2
TOTAL COOLANT CAPACITY (lt)			316	252	316	270	
FUEL TANK CAPACITY (lt)			3000	3500	3500	4000	

