

# PERKINS 165-188 kVA

## Technical Specifications



### ENGINE

- PERKINS series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged, air to air charge cooled
- Direct injection
- Rotary type pump
- 12 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 gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are CE certified in accordance with the requirements of 2000/14/EC, noise emission directive.

### 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

### EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital (critical) type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 gensets
- 4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter

### 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 Assembling Base Frame with screw & nuts



Refilling from out of canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender



## PERKINS Series Diesel Generator Sets 165-188kVA

GEN SET		MODEL		E PR ST 0165							
				50 Hz		60 Hz					
		FREQUENCY		400 V		440 V		380 V		220 V	
		VOLTAGE		165		188		188		188	
STANDBY		kVA		132		150		150		150	
		kW		150		169		169		169	
PRIME		kVA		120		135		135		135	
		kW		1050 x 3180 x 1870		1050 x 3180 x 1870		1050 x 3180 x 1870		1050 x 3180 x 1870	
		CANOPY DIMENSION (W x L x H) mm.		1780		1780		1780		1780	
		CANOPY WEIGHT (KG)		1050 x 2700 x 1850		1050 x 2700 x 1850		1050 x 2700 x 1850		1050 x 2700 x 1850	
		OPEN DIMENSION (W x L x H) mm.		1530		1530		1530		1530	
		OPEN WEIGHT (KG)									
DIESEL ENGINE		PERKINS		1106A-70TAG2							
				144,1		164		164		164	
		NET ENGINE POWER		STANDBY		PRIME		kW		kW	
		ENGINE SPEED (rpm)		1500		1800		1800		1800	
		CYCLE		4 STROKE		4 STROKE		4 STROKE		4 STROKE	
		DISPLACEMENT (lt)		7,01		4,4		4,4		4,4	
		NO. OF CYLINDERS / ALIGNMENT		4 / IN LINE		4 / IN LINE		4 / IN LINE		4 / IN LINE	
		BORE / STROKE (mm.)		105 x 135		105 x 135		105 x 135		105 x 135	
		COMPRESSION RATIO		16:1		16:1		16:1		16:1	
		GOVERNING TYPE		ROTARY TYPE PUMP		ROTARY TYPE PUMP		ROTARY TYPE PUMP		ROTARY TYPE PUMP	
		INDUCTION		TURBOCHARGED, AIR TO AIR CHARGE COOLED		TURBOCHARGED, AIR TO AIR CHARGE COOLED		TURBOCHARGED, AIR TO AIR CHARGE COOLED		TURBOCHARGED, AIR TO AIR CHARGE COOLED	
		COMBUSTION SYSTEM		DIRECT INJECTION		DIRECT INJECTION		DIRECT INJECTION		DIRECT INJECTION	
		FUEL CONSUMPTION (lt/h)		%100 LOAD		33,4		38,2		38,2	
				%75 LOAD		24,7		29,1		29,1	
				%50 LOAD		16,4		19,1		19,1	
		TOTAL COOLANT CAPACITY (lt)		21		21		21		21	
		TOTAL LUBRICATING CAPACITY (lt)		16,5		16,5		16,5		16,5	
		FUEL TANK CAPACITY (lt)		350		350		350		350	
ALTERNATOR		STAMFORD		UCI274F		UCI274F		UCI274F		UCI274F	
				SELF EXCITED		SELF EXCITED		SELF EXCITED		SELF EXCITED	
		CONTROL SYSTEM		AS440 / ± 1 %		AS440 / ± 1 %		AS440 / ± 1 %		AS440 / ± 1 %	
		A.V.R. / VOLTAGE REGULATION		CLASS H		CLASS H		CLASS H		CLASS H	
		INSULATION SYSTEM		IP 23		IP 23		IP 23		IP 23	
		PROTECTION		0,8		0,8		0,8		0,8	
		RATED POWER FACTOR		50 Hz		60 Hz		60 Hz		60 Hz	
		FREQUENCY		400 V		440 V		380 V		440 V	
		VOLTAGE		311		311		14		311	
		WINDING NO		160		190		180		190	
		CONT. H - 125/40 °C		175		206,5		190		206,5	
		STANDBY - 163/27 °C									

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