

Technical Specification for Cummins Industrial Type Generator Set

Standby Power 520KW/650KVA TPD590C5

DIESEL GENERATOR DATA:

Generator set model	: TPD590C5
Generator standby power	: 520KW/650KVA
Rated frequency	: 50HZ
Rated voltage	: 400/230V (Can be adjusted)
Rated speed	: 1500RPM
Fuel consumption	: 141.4L/h
Open type size	: 3366x1550x2200 MM
Silent type size	: 4400x1350x2300 MM
Open type weight	: 4000 Kg
Silent type weight	: 4680 Kg

ENGINE DATA:

Engine model:	: KTA19-G8
Engine brand	: CUMMINS
Engine standby power	: 575KW
Engine speed	: 1500RPM
Bore & Stroke	: 159 × 159 mm
Displacement	: 18.9 L
Compression ratio	: 17.0:1
Type	: In line, 6 cylinders, 4 stroke
Aspiration	: Turbocharged, Air-Air Aftercooled
Governor	: Electronic
Cooling method	: Water cooled by radiator

ALTERNATOR DATA:

Alternator model	: HCI 544E	MP-480-4	TP-500-4
Alternator brand	: STAMFORD	MARATHON	TONTEK
Rated power	: 488KW	480KW	500KW
Frequency	: 50HZ		
Speed	: 1500RPM		
Voltage	: 400/230V (Can be adjusted)		
Power factor	: 0.8 (lagging)		
Phase and wire	: 3 phase 4 wires		
Excite type	: Single Bearing, Close coupled. Brushless, self-exciting, AVR		

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Protection class : IP23
Insulation class : H

CONTROL SYSTEM DATA:

Deepsea-DSE6020 (Standard)



The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Engine run-time Hours
- Engine oil pressure (Panel Meter)
- Engine coolant temperature (Panel Meter)

Protecting Functions

- Over frequency / under frequency
- Over voltage / under voltage
- Over current
- Over speed /under speed
- Emergency stop
- Low oil pressure
- High water temperature
- Failure to start/Failure to stop
- Battery charger failure
- Comprehensive shutdown or warning on fault condition

SCOPE OF SUPPLY:

Diesel generator (Open type)	1 Set
Soundproof canopy	1 Set
Control system	1 Set
CHINT breaker	1 Pcs
Daily use base fuel tank for 8 working hours	1 Pcs
Muffler	1 Pcs
Maintenance-free battery DC24V and connection wires	1 Set
Flange	1 Pcs
Bellows	1 Pcs
Standard maintenance tool	1 Set

OPTION:

*ABB MCCB circuit breaker	*Super silent canopy
*Residential exhaust muffler	*50°C radiator
*12 hours/24 hours base fuel tank	*Water heater
*Dual wall base fuel tank	*Oil heater
*External fuel tank	*Oil-water separator
*Droop Kit for synchronizing work	*PMG excitation
*Anti Condensation Heater	*Remote Control panel
*Paralleling System	*ATS control cabinet

DOCUMENTATION:

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Engine documents	1 Set
Alternator documents	1 Set
Control system documents	1 Set
Generator set operation&manual	1 Pcs
Generator set testing report	1 Pcs
Electric drawing	1 Set

FACTORY ACCEPTANCE TEST (FAT):

The safety function test for the generator set will be carried out in Tontek Power Limited factory in China. All consumables items during the test will be provided.

WARRANTY:

18 months or 1500 Working Hours from the shipment date, whichever comes first.

Contact Us

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TONTEK POWER LIMITED reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice.

Please contact the salesman before ordering.

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