

Technical Specification for Yangdong Industrial Type Generator Set

Prime Power 8KW/10KVA TPD10Y5

DIESEL GENERATOR DATA:

Generator set model	: TPD10Y5
Generator rated power	: 8KW /10KVA
Generator standby power	: 9KW /11KVA
Rated frequency	: 50HZ
Rated voltage	: 400/230V (Can be adjusted)
Rated speed	: 1500RPM
Fuel consumption	: 106.5L/h
Open type size	: 1550x700x950 MM
Silent type size	: 1700 × 950 × 1050 MM
Open type weight	: 410 Kg
Silent type weight	: 600 Kg

ENGINE DATA:

Engine model:	: YD380D
Engine brand	: YANGDONG
Engine rated power	: 10KW/12.5KVA
Engine standby power	: 12KW/15KVA
Engine speed	: 1500RPM
Bore & Stroke	: 80 × 90mm
Displacement	: 1.357L
Compression ratio	: 18
Fuel consumption at 100% load	: ≤260
Type	: Vertical,water cooling,4 stroke,3 cylinders
Aspiration	: Natural Aspiration
Governor	: Electronic
Starting method	: Electric
Cooling method	: Forced water cooling
Firing order	: 1-3-2
Flywheel size	: SAE7.5"
Bell housing size	: SAE4#
Net mass	: 165
Overall dimensions(L*W*H)mm	: 587*474*628

ALTERNATOR DATA:

Alternator model	: TP-8.8-4
Alternator brand	: TONTEK
Rated power	: 8.8kW/11KVA
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
Protection class	: IP23
Insulation class	: H

Specification of control:

SUMMARY

HGM400 series automatic controller, integrating digital, intelligent and network techniques, is used for automatic control system of generator. It can achieve automatic start/stop, data measuring and “three remote” functions (SG485 module is needed). The controller uses LCD display, optional Chinese, English, Spanish, Turkish, French and Russian display interface with easy and reliable operation.

HGM400 series automatic controller uses micro-processing technique which can carry out precision measuring, constant value adjustment, timing and threshold setting and etc.. All the parameters can be adjusted from front panel or through programmable interface (USB to LINK, can use SG72 adaptor) via PC. It can be widely used in all types of generator automatic control system for compact structure, simple connections and high reliability.

PERFORMANCE AND CHARACTERISTICS

HGM400 series controller has two variants:

HGM410: Automatic Start Module, it controls generator to start/stop by remote start signal; 132x64 LCD with backlight, optional language interface (Chinese, English, Spanish and Russian), push-button operation;

Adapt to 3 phase 4 wire, single phase 2 wire, 3 phase 3 wire and 2 phase 3 wire (120/240V), 50/60Hz power supply;

Can measure and display 3-phase voltage, 3-phase current, frequency, and power;

For mains: Over/under voltage, lack of phase; for generator: over/under voltage, over/under frequency, over current;

Precision measure and display engine parameters,

Control protection: Automatic start/stop, switch on/off (ATS control) and fault display;

With ETS, idle control, pre-heat control, acceleration and deceleration control, all are relay output;

Parameters setting: Allow user to modify parameters and store them in internal FLASH, which cannot be lost even when power off. All the parameters can be adjusted from the front panel, or by PC via an SG72 adaptor;

Types of temperature and pressure sensor can be directly used and user defined;

Conditions of crank disconnect can be selected.(magnetic pickup, oil pressure, generator);

Power supply range is (8~35)VDC, accommodating to different starting voltage;

All parameters use digital modulation, abandoning analog modulation of conventional potentiometer, more



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reliability and stability;

Modular design, flame retardant ABS shell, plug-in terminals, embedded mounting, compact structure, easy installation.

DOCUMENTATION:

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

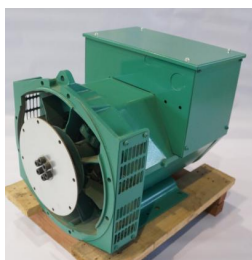
FACTORY ACCEPTANCE TEST (FAT):

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.

Single Phase Alternator Technical Data



STANDARD FEATURES

- The technical performance and mounting dimension of TP series generators are international IEC 60034, NEMA MG1-32, ISO8528, C22.2-100, VDE0530 and national GB755 standards compliant, the quality of products can reach current international standard.
- Excellent compatibility with drive systems: standard mounting dimensions can be coupled to any diesel engines from worldwide, many S.A.E flanges and S.A.E drive discs can be easily interchangeable.
- Easy access for installation and maintenance, including : coupling to engines, connecting for lead wire, adjustment for AVR, connecting for rectifier, integrating with current transformers. For balanced rotor with two sealed and quality ball bearing, TP generators have the features of little vibration and low noise.
- The standard enclosure protection is IP23.

OPTION FEATURES

1. Convenient filters on air inlets and outlets
2. Protection for winding in harsh environments
3. Space heaters
4. Stator thermal protection
5. Droop current transformers (C.T.)

Insulation Class			H		Powe factor:0.8 (lagging)		Max. Amb. Temp.	45℃
Volt. Regulation			1%				Altitude	<=1000m
Protection Class			IP23				Excitation System	Shunt
Model	Standby.40℃		Cont. 40℃		Rated Output	Freq.	Rated Curr.	Efficiency
	KVA	KW	KVA	KW	V	Hz	A	η
TPS-6.5-4	8. 9	7. 2	8	6. 5	230	50	28. 3	73. 6
TPS-8.8-4	12. 1	9. 7	11	8. 8	230	50	38. 3	76. 9
TPS-10.8-4	14. 9	11. 9	14	10. 8	230	50	47. 0	78. 1
TPS-12.8-4	17. 6	14. 1	16	12. 8	230	50	55. 7	79
TPS-14-4	19. 3	15. 4	18	14	230	50	60. 9	79. 1
TPS-16-4	22. 0	17. 6	20	16	230	50	69. 6	79. 6
TPS-18-4	24. 8	19. 8	23	18	230	50	78. 3	81. 5
TPS-20-4	27. 5	22	25	20	230	50	87. 0	82. 2
TPS-22-4	30. 3	24. 2	28	22	230	50	95. 7	83
TPS-25-4	34. 4	27. 5	31	25	230	50	108. 7	83. 5
TPS-28-4	38. 5	30. 8	35	28	230	50	121. 7	83. 7
TPS-30-4	41. 3	33	38	30	230	50	130. 4	83. 8
TPS-32-4	44. 0	35. 2	40	32	230	50	139. 1	83. 9
TPS-32-4	44. 0	35. 2	40	32	230	50	139. 1	84
TPS-34-4	46. 8	37. 4	43	34	230	50	147. 8	84. 5
TPS-40-4	55. 0	44	50	40	230	50	173. 9	85. 6
TPS-45-4	61. 9	49. 5	56	45	230	50	195. 7	86. 2
TPS-50-4	68. 8	55	63	50	230	50	217. 4	86. 6
TPS-54-4	74. 3	59. 4	68	54	230	50	234. 8	86. 9

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Sound-Proof Canopy Set

Model: TPY-1

Features:

- The canopy is specially designed for easy access & maintenance of all parts of the generator
- Starter battery is fitted in a separate wind flowing chamber for safety & easy maintenance
- Base has been designed for easy movement by forklift
- Two side door with lock & four ventilators
- Water, weather & sound-proof canopy
- Noise level maximum 60dB



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(Control panel)



(ATS breaker)

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(Fuel input)



(Forklift)



(Cable wires)



(Free battery)



(Battery switch)

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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