

THSC Series Specification



Basic Parameters

THSC120PB	
Prime power (KW/KVA)	120/150
Standby power (KW/KVA)	130/165
Rated voltage(V)	400
Frequency(Hz)	50
Rated speed(rpm)	1500

Design standard

Equipment and accessories according with following criteria, but not limited to:

- IEC34-1:** Performance of fixed and rotary motor
- GB755:** Rotating Machines Basic technical requirements
- GB1105:** Internal combustion engine platform testing rule
- GB1859:** Internal combustion engine noise testing rule
- GB2820:** Technical conditions of AC generator driving by reciprocating internal combustion engine
- GB2423.4:** Electric and electronic products of basic environmental testing instruction Db: Alternate damp & heat testing rule
- GB2423.16:** Electric and electronic products of basic environmental testing instruction J: Mould growth testing rule
- GB3907:** Basic measuring rule of industry radio inference
- GB5320:** Vocabulary terms of internal combustion engine
- GB12699:** Power frequency generating sets for rated power, voltage and rotate speed
- ZB J91 005:** Internal combustion engine driven generating sets -- Limits and measuring rule tensional vibration of shaft systems rules

Generating-set performance

Voltage adjusting range	95-105%
Steady State Voltage Regulation	$\pm 1\%$
Transient voltage deviation (100% load sudden reduce)	$\leq +20\%$
Transient voltage deviation (load impact)	$\leq -15\%$
Voltage stabilization time (100% load sudden reduce)	≤ 3
Voltage stabilization time (load sudden impact)	≤ 3
Voltage fluctuation rate:	$\leq \pm 1\%$
Steady-state frequency regulation	$\leq \pm 0.5\%$
Frequency volatility	$\pm 0.5\%$
Transient frequency deviation (100% load sudden reduce)	$\leq +10\%$
Transient frequency deviation (load sudden impact)	$\leq -7\%$
Frequency Recovery Time (100% load sudden reduce)	≤ 3
Frequency Recovery Time (load sudden impact)	≤ 3

Different Voltage Unit

Voltage (V)	Frequency (Hz)	Phase	Power factor (COS ϕ)	Current (A)
254 / 440	50	3	0.8	197
240 / 415	50	3	0.8	209
230 / 400	50	3	0.8	217
220 / 380	50	3	0.8	228