



## **mitsubishi S6A3-PTAA**

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[Exhaust gas emission](#)

[Fuel consumption](#)

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**MITSUBISHI DIESEL ENGINE  
TECHNICAL INFORMATION**

ITEM NO.

T0212-0002E Rev.1 (1/4)

DATE

February, 2014

**Specification Sheets of S6A3-PTAA Engine**

Specification Sheets of S6A3-PTAA Engine are enclosed herein.

Revision	First Edition : Mar., 2013((T13-0351-E Feb. '00)	Engine Engineering Department High Speed Engine Designing Section		
	Rev.1 : Feb., 2014			
		Approved by	Checked by	Drawn by

## GENERAL ENGINE DATA

Type	----- 4-Cycle, Water Cooled	
Aspiration	----- Turbo-Charged, Air to Air Cooler	
Cylinder Arrangement	----- Inline	
No. of Cylinders	----- 6	
Bore mm(in.)	----- 150	(5.91)
Stroke mm(in.)	----- 175	(6.89)
Displacement liter(in <sup>3</sup> )	----- 18.56	(1133)
Compression Ratio	----- 14.5:1	
Dry Weight - Engine only - kg(lb)	----- 1800	(3969)
- Radiator & Piping - kg(lb)	----- 320	(706)
Wet Weight - Engine only - kg(lb)	----- 1910	(4212)
- Radiator & Piping - kg(lb)	----- 390	(860)

## PERFORMANCE DATA

Steady State Speed Stability Band at any Constant Load		
Mechanical - %	-----	±0.5
Hydraulic (std.) or Electric Governor - %	-----	±0.25 or better
Maximum Overspeed Capacity - rpm	-----	2300
Moment of inertia of Rotating Components - kgf·m <sup>2</sup> (lbf·ft <sup>2</sup> )	-----	32.09 (761.6)
(Includes Std. Flywheel)		
Cyclic Speed Variation with Flywheel at 1800rpm	-----	1/178
1500rpm	-----	1/112

## ENGINE MOUNTING

Maximum Bending Moment at Rear Face of Flywheel Housing - kgf·m(lbf·ft)	-----	200 (1447)
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## AIR INLET SYSTEM

Maximum Intake Air Restriction (Includes piping)		
With Clean Filter Element - mm H <sub>2</sub> O (in. H <sub>2</sub> O)	-----	400 (15.7)
With Dirty Filter Element - mm H <sub>2</sub> O (in. H <sub>2</sub> O)	-----	635 (25.0)

## EXHAUST SYSTEM

Maximum Allowable Back Pressure - mm H <sub>2</sub> O (in. H <sub>2</sub> O)	-----	600 (23.6)
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## LUBRICATION SYSTEM

Oil Pressure at Idle - kgf/cm <sup>2</sup> (psi)	-----	2~3 (29~43)
at Rate Speed - kgf/cm <sup>2</sup> (psi)	-----	5~6 (71~86)
Maximum Oil Temperature - °C(°F)	-----	110 (230)
Oil Capacity of Standard Pan High - liter (U.S. gal)	-----	70 (18.5)
Low - liter (U.S. gal)	-----	50 (13.2)
Total System Capacity (Includes Oil Filter) - liter (U.S. gal)	-----	80 (21.1)
Maximum Angle of Installation (Std. Pan) Front Down	-----	10°
(Engine Only) Front Up	-----	12°
Side to Side	-----	22.5°

## COOLING SYSTEM

Coolant Capacity - Engine - liter (U.S. gal)	-----	45 (11.9)
- Radiator & Piping - liter (U.S. gal)	-----	70 (18.5)
Maximum External Friction Head at Engine Outlet - kgf/cm <sup>2</sup> (psi)	-----	0.35 (5.0)
Maximum Static Head of Coolant above Crankshaft Center - m(ft)	-----	10 (32.8)
Maximum Outlet Pressure of Engine Water Pump - kgf/cm <sup>2</sup> (psi)	-----	1.7 (24.3)
Standard Thermostat (modulating) Range- °C(°F)	-----	65~85 (149~185)
Maximum Coolant Temperature at Engine Outlet- °C(°F)	-----	98 (208)
Minimum Coolant Expansion Space - % of System Capacity	-----	10
Maximum cooling Air Temperature at Air to Air cooler Inlet, TAA type- °C(°F)	-----	40 (104)
Maximum Air Restriction on Discharge Side of Radiator and Fan-mm H <sub>2</sub> O(in. H <sub>2</sub> O)	-----	10 (0.4)

The specifications are subject to change without notice.

APPLICATION : GENERATOR

Pub. No. T0212-0002E 2/4

**FUEL SYSTEM**

Fuel Injector .....	Bosch P Type × 1
Maximum Suction Head of Feed Pump - mm Hg (in. Hg) .....	75 (3.0)
Maximum Static Head of Return & Leak Pipe - mm Hg (in.Hg) .....	150 (5.9)

**STARTING SYSTEM**

Battery Charging Alternator - V-Ah .....	24-30
Starting Motor Capacity - V -kW .....	24-6.0
Maximum Allowable Resistance of Cranking Circuit - m Ω .....	2.5
Recommended Minimum Battery Capacity	
At 5°C(41°F) and above - Ah .....	200
Below 5°C(41°F) through - 5°C(23°F) .....	400

The specifications are subject to change without notice.

**APPLICATION : GENERATOR**

Pub. No. T0212-0002E 3/4

**ENGINE RATING**

All data represent net performance with standard accessories such as air cleaner, inlet /exhaust manifolds, fuel oil system, L.O. pump, etc. under the condition of 100kPa(29.6inHg) barometric pressure, 77°F(25°C) ambient temperature and 30% relative humidity.

ITEM	UNIT	STAND-BY POWER			PRIME POWER		
		60Hz	50Hz		60Hz	50Hz	
Engine Speed	rpm	1800	1500		1800	1500	
No. of Cylinders		6					
Bore	mm (in.)	150 (5.91)					
Stroke	mm (in.)	175 (6.89)					
Displacement	liter (in. <sup>3</sup> )	18.56 (1133)					
Brake Horse power with Fan	HP (kW)	692 (516)	634 (473)		617 (460)	577 (430)	
Brake Mean Effective Pressure with Fan	kgf/cm <sup>2</sup> (psi)	18.9 (269)	20.8 (296)		16.9 (240)	18.9 (269)	
Mean Piston Speed	m/s (ft/min)	10.5 (2067)	8.8 (1732)		10.5 (2067)	8.8 (1732)	
Maximum Regenerative Power Absorption Capacity without Fan	HP (kW)	73 (54)	53 (40)		73 (54)	53 (40)	
Intake Air flow	m <sup>3</sup> /min (CFM)	46 (1624)	40 (1412)		41 (1448)	37 (1306)	
Exhaust Gas Flow	m <sup>3</sup> /min (CFM)	121 (4273)	107 (3778)		107 (3778)	97 (3425)	
Coolant Flow	liter/min (U.S. GPM)	650 (172)	580 (153)		650 (172)	580 (153)	
Cooling Air Flow	m <sup>3</sup> /min (CFM)	553 (19526)	431 (15219)		553 (19526)	431 (15219)	
Fan Loss Horse Power	HP (kW)	27 (20)	14 (10)		27 (20)	14 (10)	
Radiated Heat to Ambient	kcal/hr (BTU/min)	34304 (2269)	30459 (2015)		30586 (2023)	27720 (1833)	
Heat Rejection to Coolant	kcal/hr (BTU/min)	148650 (9832)	131987 (8729)		132539 (8766)	120121 (7945)	
Heat Rejection to Air to Air Cooler	kcal/hr (BTU/min)	137215 (9075)	121835 (8058)		122344 (8092)	110881 (7334)	
Heat Rejection to Exhaust	kcal/hr (BTU/min)	379420 (25094)	324338 (21451)		338297 (22375)	295178 (19523)	
Noise Level (1 m height & distance) (excludes, Intake,Exhaust & Fan)	dB(A)	TBD	TBD		TBD	TBD	

The specifications are subject to change without notice.

APPLICATION : GENERATOR

Pub. No. T0212-0002E 4/4



**MITSUBISHI DIESEL ENGINE  
TECHNICAL INFORMATION**

ITEM NO.

T0307-0003E (1/2)

DATE

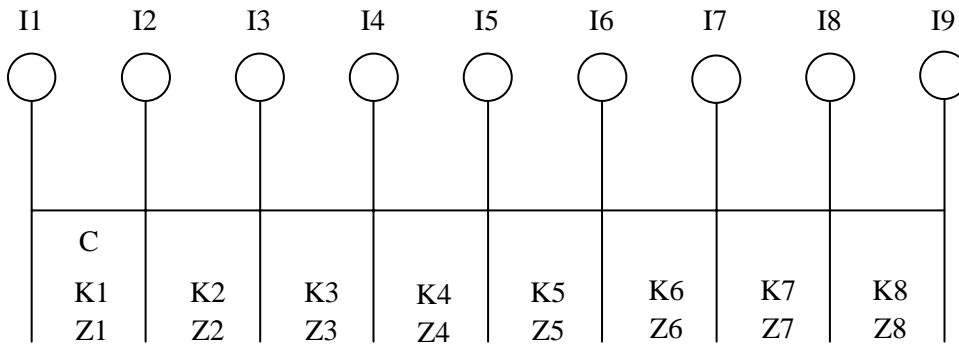
July, 2006

Elastic data of S6A3 Engine

Elastic data of S6A3 Engine are enclosed herein.

Revision	First Edition : July, 2006 (Refer to ELASTIC-S6A3-PTA Oct.,2003, S6A3.0)	Engine Engineering Department Large Engine Design Section		
		Approved by	Checked by	Drawn by



**S6A3-PTA ELASTIC DATA**

	Moment of inertia J kg.m <sup>2</sup>	Damping coefficient Nm/rad/s	Spring const. x10 <sup>7</sup> Nm/rad	Tensile strength N/mm <sup>2</sup>	Section modulus cm <sup>3</sup>
I1	DAMPER	0.412	C=392.3	K1=0	Z1 =0.0
I2	PULLEY	0.331	—	K2=0.907	Z2 =209.5
I3	No.1 CRANK	0.331	—	K3=0.505	Z3 =209.5
I4	No.2 CRANK	0.217	—	K4=0.505	Z4 =209.5
I5	No.3 CRANK	0.331	—	K5=0.505	Z5 =209.5
I6	No.4 CRANK	0.331	—	K6=0.505	Z6 =209.5
I7	No.5 CRANK	0.217	—	K7=0.505	Z7 =209.5
I8	No.6 CRANK	0.331	—	K8=0.876	Z8 =209.5
I9	FLYWHEEL 18in 14in	5.93 1.99	—		

Hysteresis constant:170 No. of Cylinder: 6 Bore:150mm Stroke:175mm

Length of Con-Rod: 290mm Weight of Reciprocating Parts: 8.649 kg

Firing order:1-5-3-6-2-4

Firing interval:0-120-240-360-480-600

APPLICATION : LAND USE

The data is subject to change without notice.



**MITSUBISHI HEAVY INDUSTRIES, LTD.**  
GENERAL MACHINERY & SPECIAL VEHICLE



**MITSUBISHI DIESEL ENGINE  
TECHNICAL INFORMATION**

ITEM NO.

T0402-0001E Rev.1 (1/2)

DATE

May, 2008

**Exhaust Gas Emission Data**

Exhaust Gas Emission Data is enclosed herein.

These data are subject to change without notice.

Revision	First Edition : May, 2008	Engine Engineering Department Engine System Designing Section		
	Rev.1: February, 2013			
		Approved by	Checked by	Drawn by



**EXHAUST GAS EMISSION DATA OF DIESEL ENGINE FOR GENERATOR**  
For Reference

MODEL	S6A3-P		S12A2-P		S12H-P		S6R-P		S12R-P		S12R-PTA2		S12R-PTAA2 (W/FAN)		S16R-P		S16R-PTA2		S16R-PTAA2 (W/FAN)		S16R2-PTAW
	400/ 1500	480/ 1800	679/ 1500	761/ 1800	930/ 1500	1020/ 1800	515/ 1500	595/ 1800	1110/ 1500	1190/ 1800	1195/ 1500	1340/ 1800	1277/ 1500	1387/ 1800	1480/ 1500	1590/ 1800	1630/ 1500	1775/ 1800	1684/ 1500	1895/ 1800	
Prime Rating kW/min <sup>-1</sup> (without fan)	900	890	852	825	935	877	901	940	852	940	950	852	940	779	925	852	950	852	828	754	659
NOx g/Nm <sup>3</sup>	3.7	3.7	3.5	3.4	3.8	3.6	3.7	3.5	3.7	3.5	3.9	3.7	3.5	3.2	3.8	3.7	3.9	3.4	3.1	3.6	
g/AW·h	8.6	8.6	7.7	7.7	8.8	8.2	8.4	8.4	7.7	8.4	8.8	7.7	8.4	7.3	8.7	7.7	8.8	7.7	7.1	5.8	
CO PPM	(220)	(210)	(220)	(210)	(310)	(210)	310	210	(310)	(210)	(310)	(210)	(320)	(200)	(310)	(210)	(210)	(320)	(200)	119	
g/Nm <sup>3</sup>	(0.44)	(0.45)	(0.44)	(0.45)	(0.59)	(0.43)	0.52	0.39	(0.59)	(0.43)	(0.59)	(0.43)	(0.55)	(0.42)	(0.56)	(0.43)	(0.43)	(0.55)	(0.42)	0.4	
g/AW·h	(1.2)	1.4	(1.2)	1.4	(1.8)	(1.4)	1.5	1.2	(1.8)	(1.4)	(1.8)	(1.2)	(1.5)	(1.2)	(1.6)	(1.4)	(1.8)	(1.5)	(1.2)	0.5	
HC PPM	(50)	(50)	(50)	(50)	(110)	(120)	110	120	(110)	(120)	(110)	(120)	(110)	(120)	(110)	(120)	(110)	(110)	(120)	35	
g/Nm <sup>3</sup>	(0.05)	(0.06)	(0.05)	(0.06)	(0.11)	(0.13)	0.09	0.11	(0.11)	(0.13)	(0.11)	(0.13)	(0.10)	(0.13)	(0.10)	(0.13)	(0.11)	(0.10)	(0.13)	0.19	
g/AW·h	(0.15)	(0.18)	(0.15)	(0.18)	(0.31)	(0.38)	0.27	0.34	(0.31)	(0.38)	(0.31)	(0.35)	(0.29)	(0.38)	(0.29)	(0.38)	(0.31)	(0.29)	(0.38)	0.10	
CO <sub>2</sub> %	6.7	6.2	6.7	6.2	6.9	6.5	8.0	7.1	6.9	6.5	6.7	6.5	6.7	6.5	6.7	6.5	6.7	6.5	6.5	8.0	
g/AW·h	619	646	619	646	619	625	598	619	619	625	620	613	619	612	619	612	620	613	619	612	
PM g/Nm <sup>3</sup>	0.12	0.12	0.12	0.11	0.12	0.11	0.10	0.12	0.12	0.11	0.10	0.09	0.09	0.08	0.11	0.12	0.11	0.12	0.09	0.07	
g/AW·h	0.37	0.37	0.38	0.37	0.38	0.37	0.34	0.35	0.35	0.37	0.34	0.33	0.33	0.31	0.33	0.39	0.33	0.33	0.31	0.04	

## Notes

- Allowance: +25%
- Condition: 100kPa(750mmHg) barometric pressure, 298K(25°C) ambient temperature and 30% relative humidity.
- NOx, CO, HC[PPM]: with 13% O<sub>2</sub> Level.  
NOx, CO, HC, Particulates[g/Nm<sup>3</sup>]: with 5% O<sub>2</sub> Level.  
NOx, CO, HC, Particulates[g/PS·h]: with 13% O<sub>2</sub> Level.  
CO<sub>2</sub>[%]: Calculated Data.  
( ): Estimated Data.
- \*1: Standby Rating
- \*2: These data are subject to change without notice.





**MITSUBISHI DIESEL ENGINE  
TECHNICAL INFORMATION**

ITEM NO.

T33-0100-E

DATE

Jun. 1999

**FUEL CONSUMPTION**

(SB, SA, SH, SR SERIES ENGINES FOR GENERATOR DRIVE)

ENGINE MODEL	ENGINE rpm	REMARKS
S6B-PTA, PTK	1500	W/Fan, W/O Fan
	1800	
S6B3-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
S6A3-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
S12A2-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
S12H-PTA	1500	W/Fan, W/O Fan
	1800	
S6R-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
S6R2-PTA, PTK	1000	W/Fan, W/O Fan
	1200	
S12R-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
S12R-PTA2, PTK2	1500	W/Fan, W/O Fan
	1800	
S16R-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
S16R-PTA2, PTK2	1500	W/Fan, W/O Fan
	1800	
S6A3-PTAA	1500	W/Fan
	1800	
S6R2-PTAA	1500	W/Fan
S12R-PTAA2	1500	W/Fan
	1800	
S16R-PTAA2	1500	W/Fan
	1800	

First Edition : Jun. 1999

Engine Engineering Department  
Large Engine Design Section

Revision

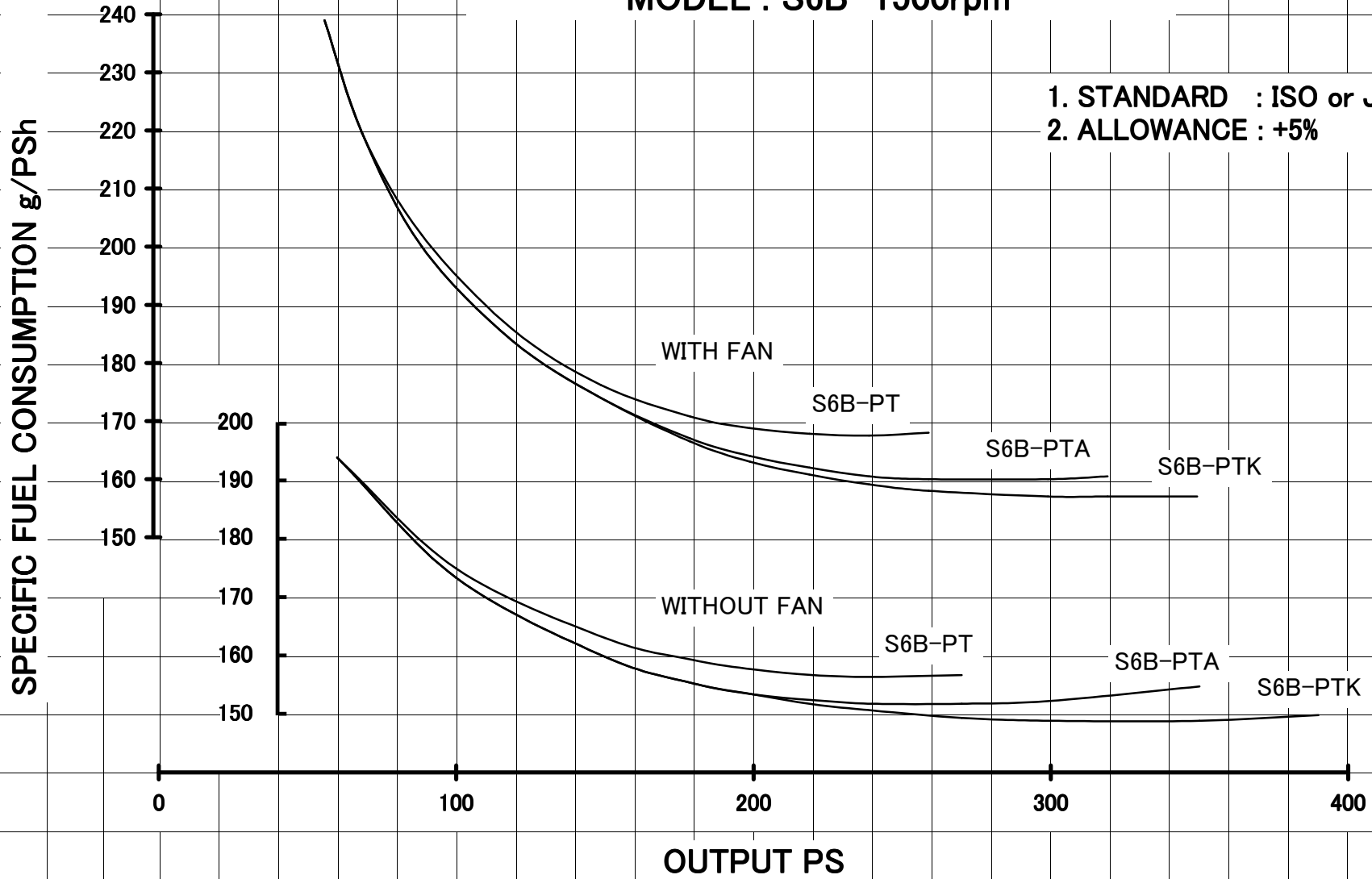
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Checked by

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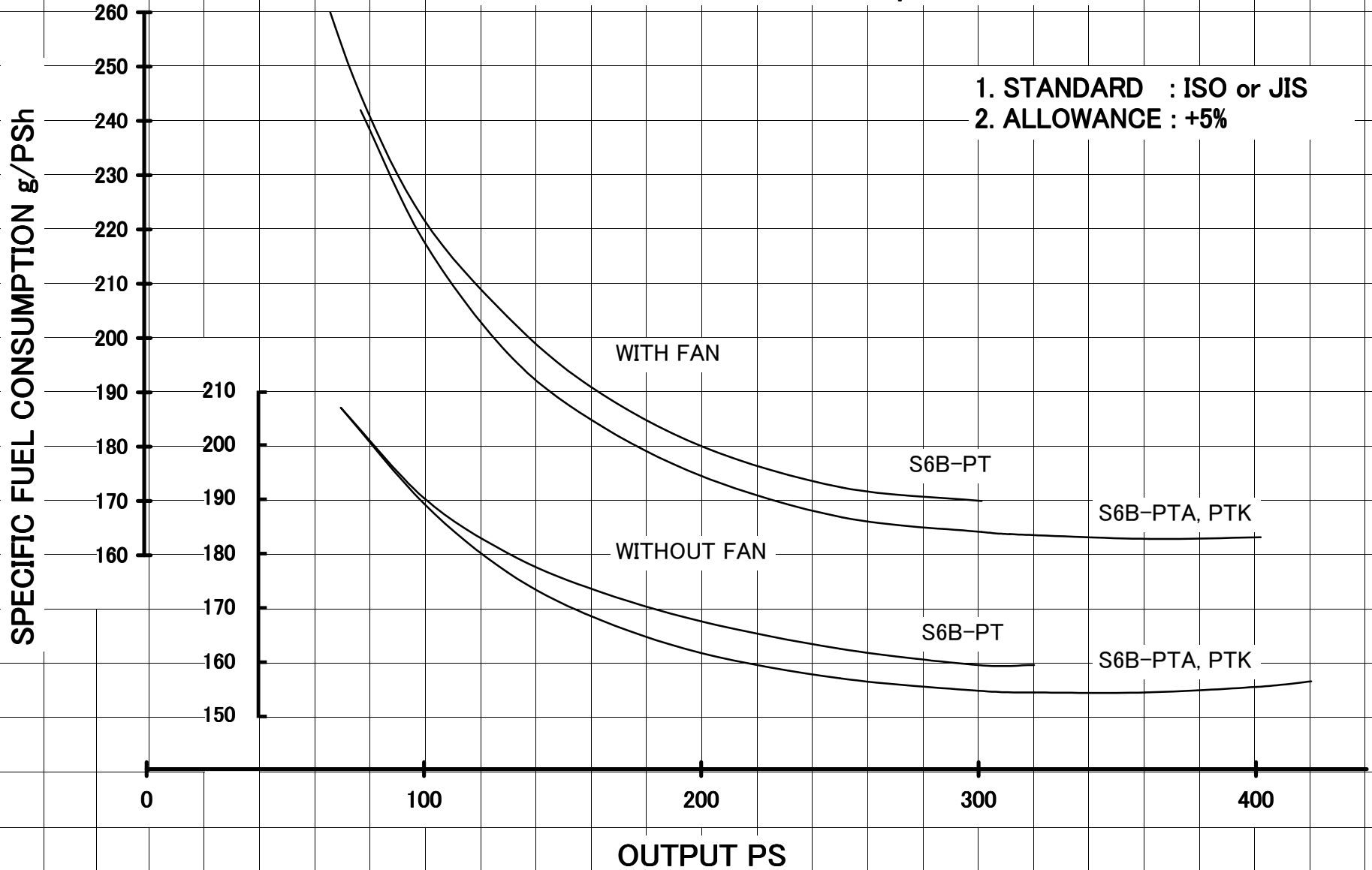
# SPECIFIC FUEL CONSUMPTION MODEL : S6B 1500rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%



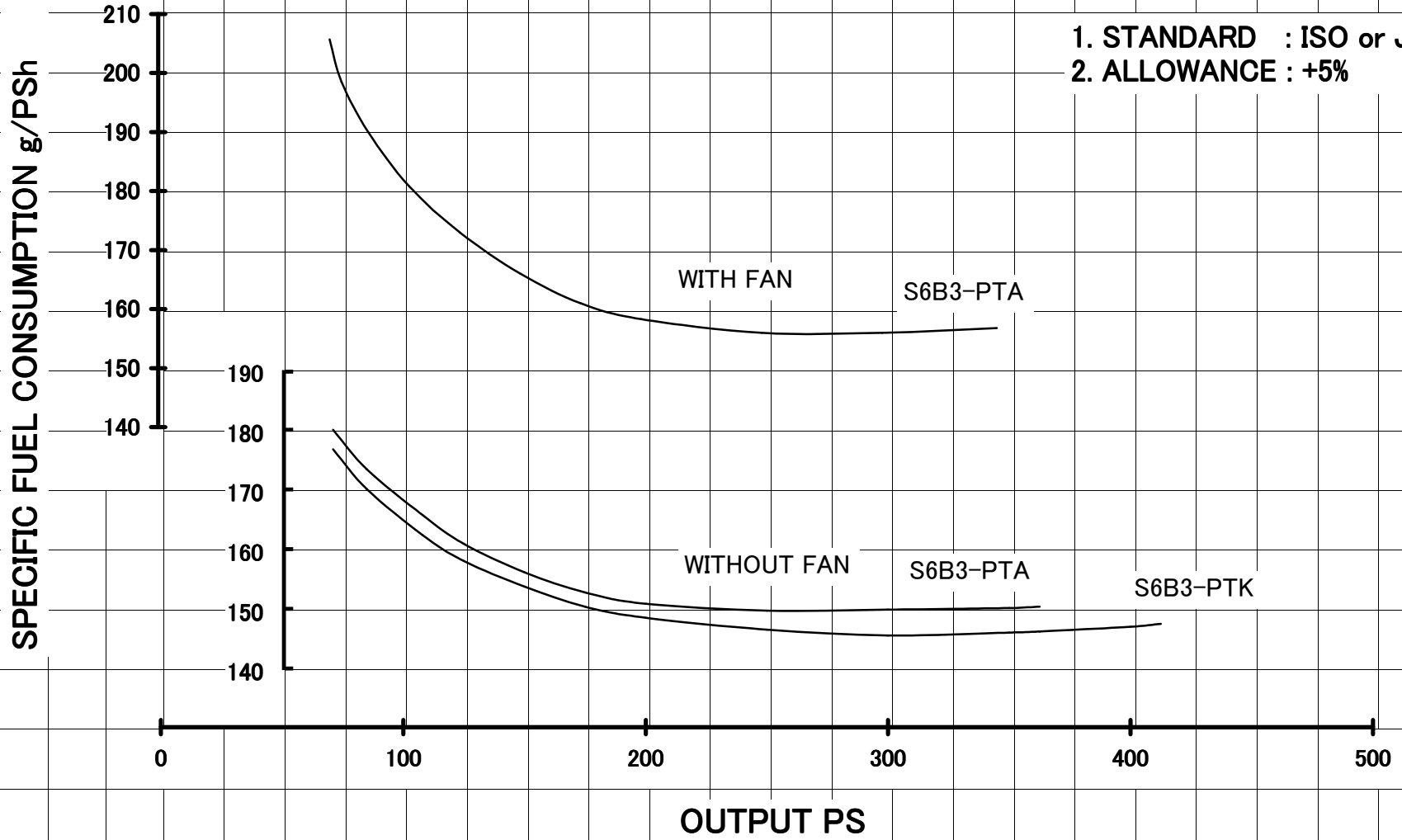
# SPECIFIC FUEL CONSUMPTION MODEL : S6B 1800rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%



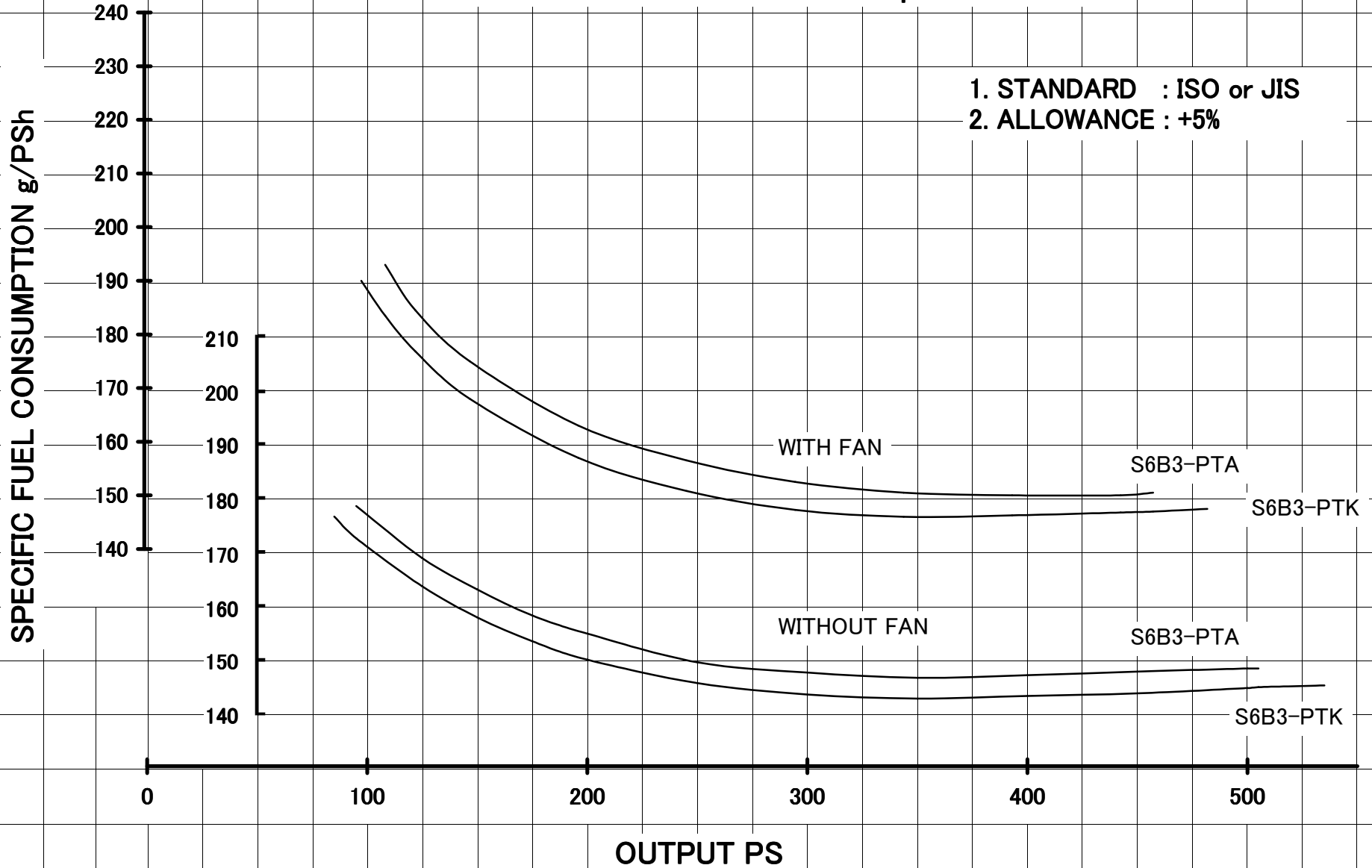
# SPECIFIC FUEL CONSUMPTION MODEL : S6B3 1200rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%



# SPECIFIC FUEL CONSUMPTION MODEL : S6B3 1500rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

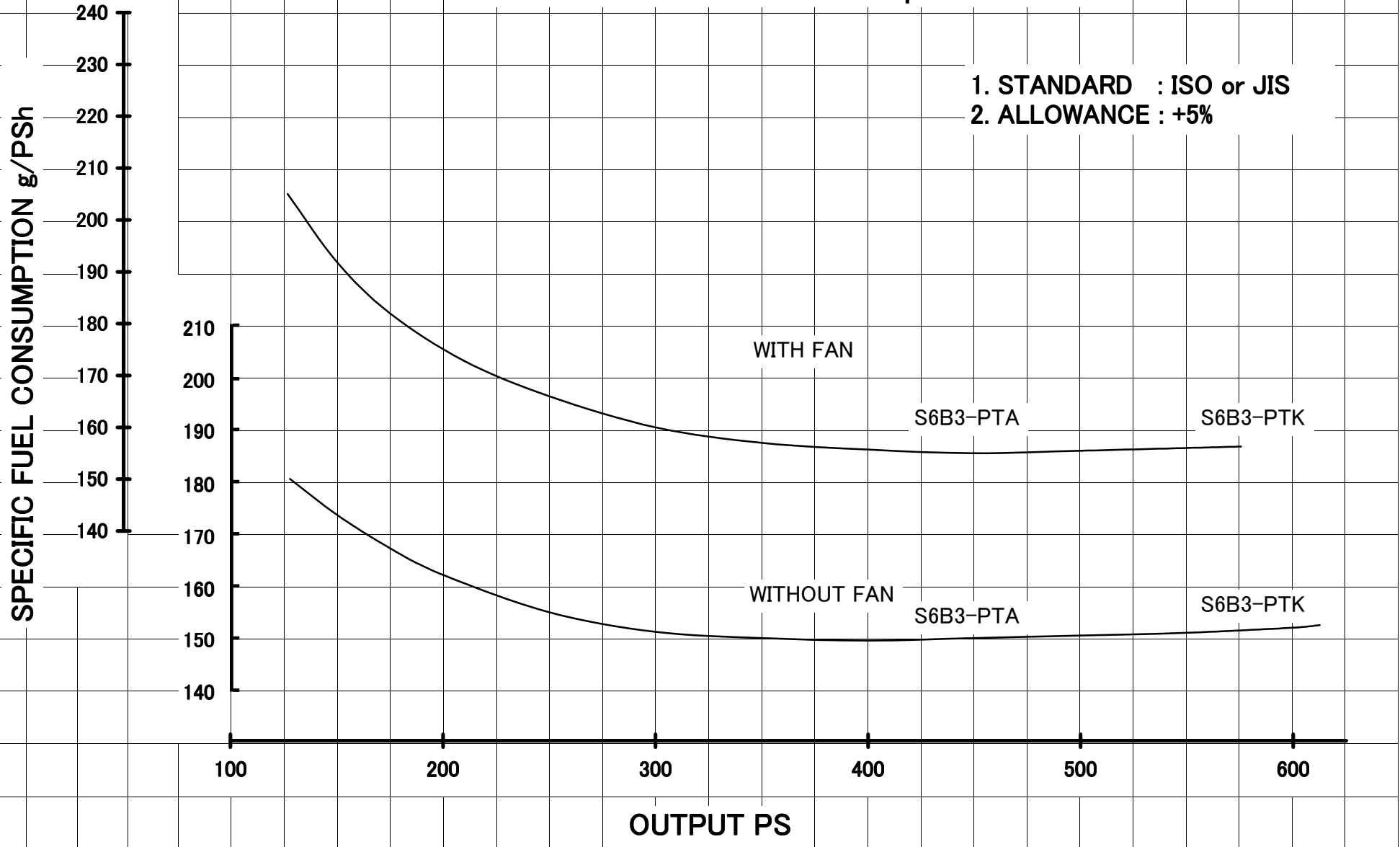


# SPECIFIC FUEL CONSUMPTION

MODEL : S6B3 1800rpm

1. STANDARD : ISO or JIS

2. ALLOWANCE : +5%



# SPECIFIC FUEL CONSUMPTION

MODEL : S6A3 1200rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

210  
200  
190  
180  
170  
160  
150  
140

190  
180  
170  
160  
150  
140

WITH FAN

WITHOUT FAN

S6BA3-PTA

S6A3-PTK

0

100

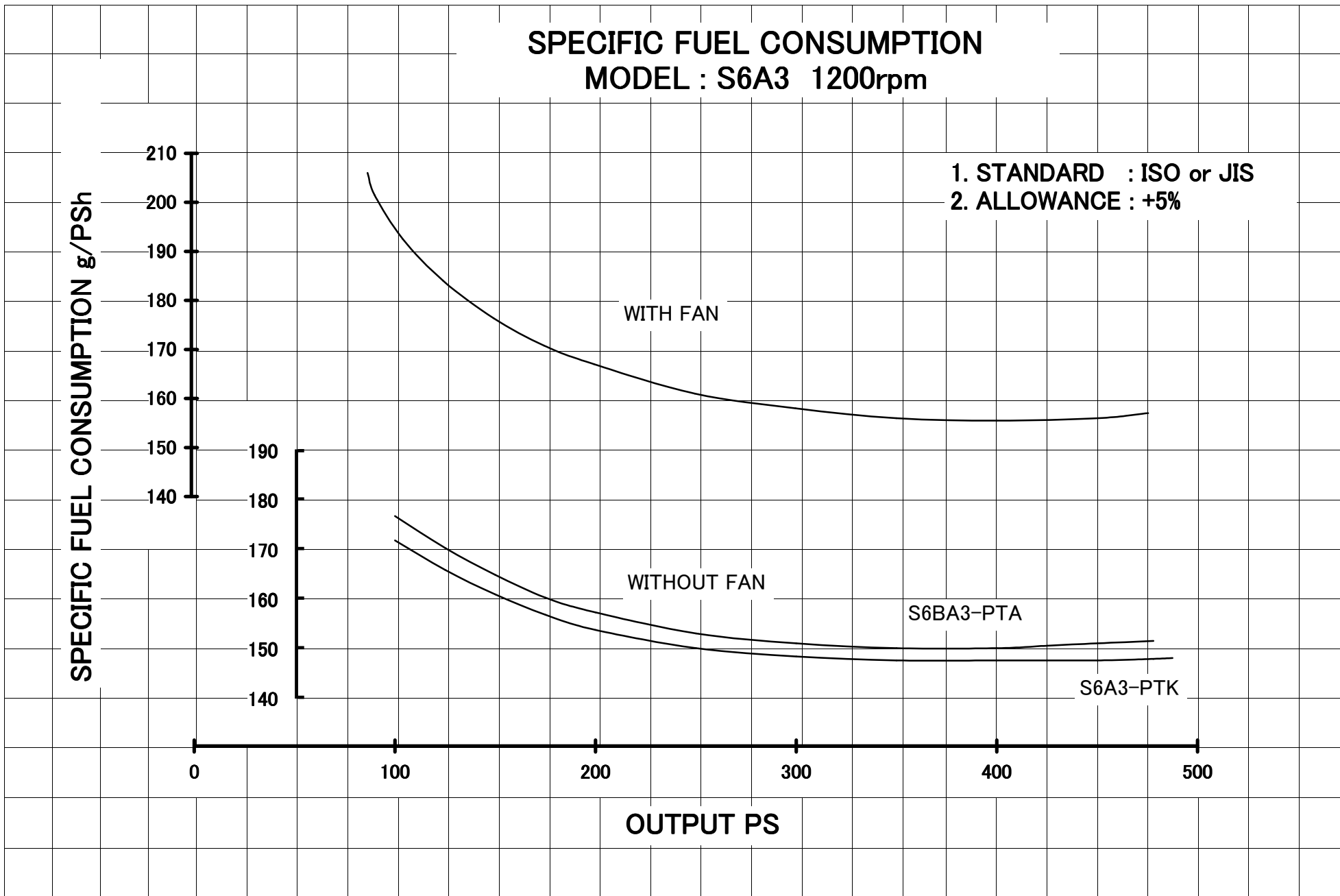
200

300

400

500

OUTPUT PS





# SPECIFIC FUEL CONSUMPTION MODEL : S6A3 1500rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PSH

220  
210  
200  
190  
180  
170  
160  
150  
140

210  
200  
190  
180  
170  
160  
150  
140

WITH FAN

S6A3-PTA

S6A3-PTK

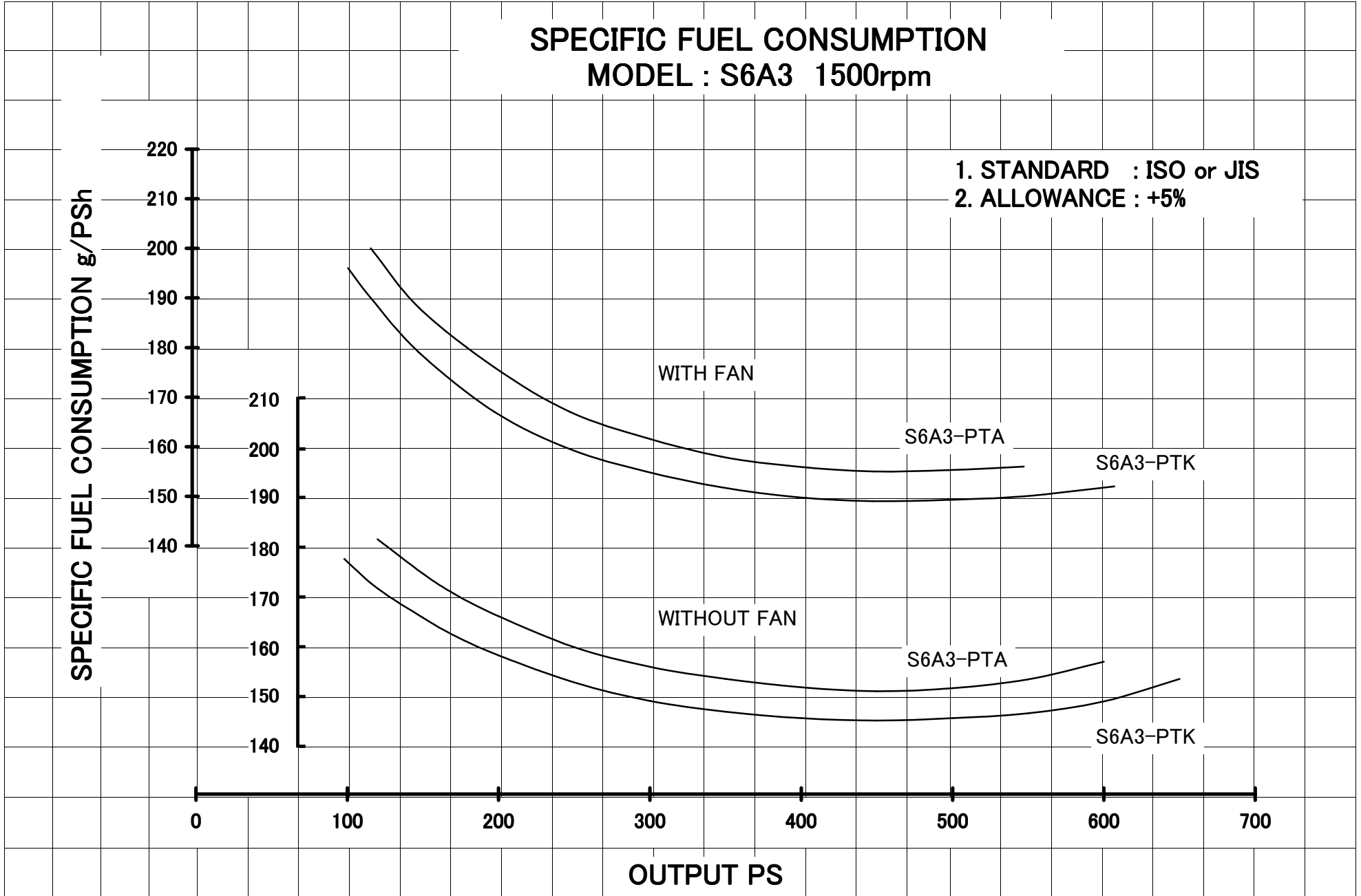
WITHOUT FAN

S6A3-PTA

S6A3-PTK

0 100 200 300 400 500 600 700

OUTPUT PS



# SPECIFIC FUEL CONSUMPTION

MODEL : S6A3 1800rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

230  
220  
210  
200  
190  
180  
170  
160  
150

210  
200  
190  
180  
170  
160  
150

WITH FAN

S6A3-PTA

S6A3-PTK

WITHOUT FAN

S6A3-PTA

S6A3-PTK

0

100

200

300

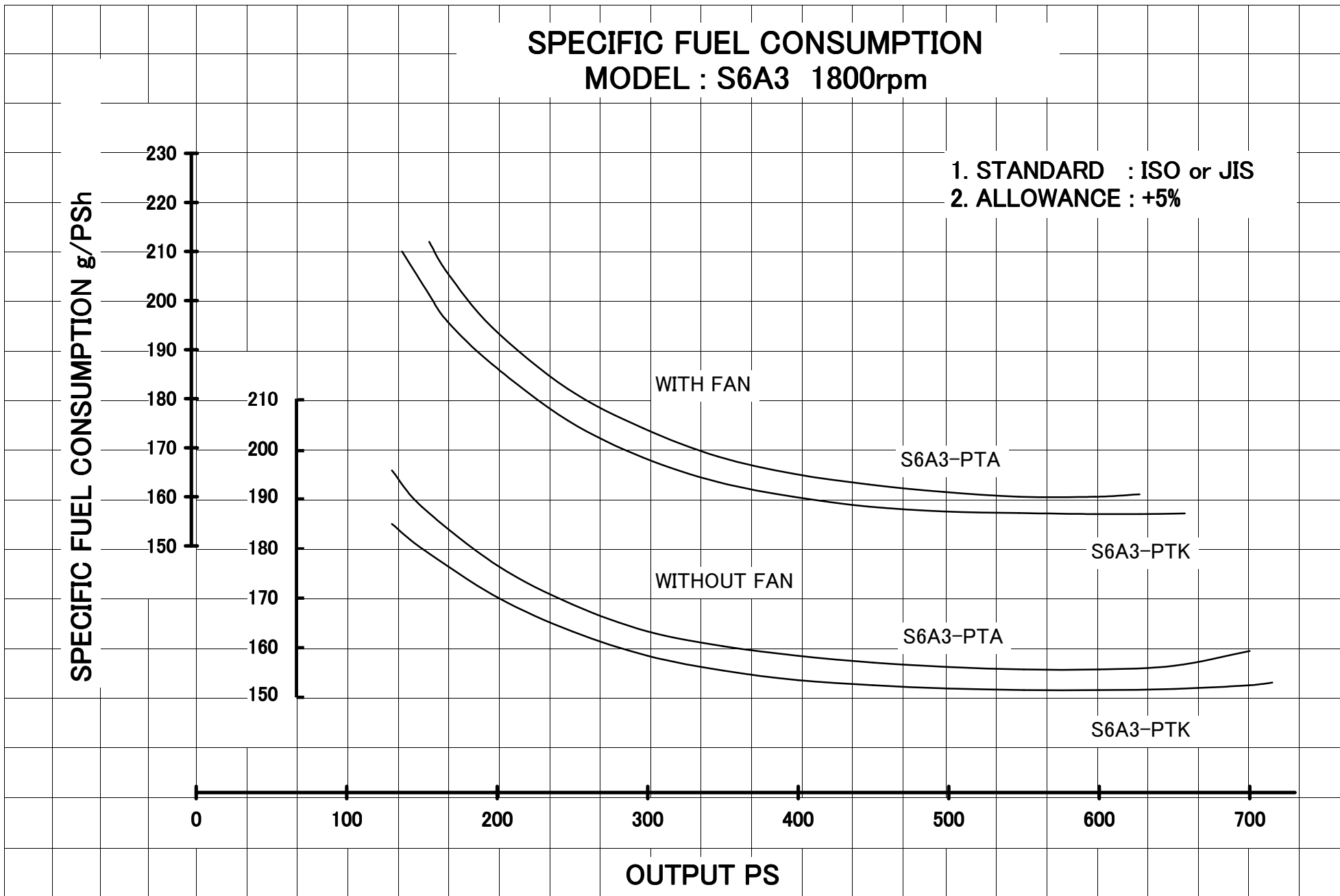
400

500

600

700

OUTPUT PS



# SPECIFIC FUEL CONSUMPTION MODEL : S12A2 1200rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

190  
180  
170  
160  
150

WITH FAN

S12A2-PT

S12A2-PTA

S12A2-PTK

180  
170  
160  
150

WITHOUT FAN

S12A2-PT

S12A2-PTA

S12A2-PTK

0

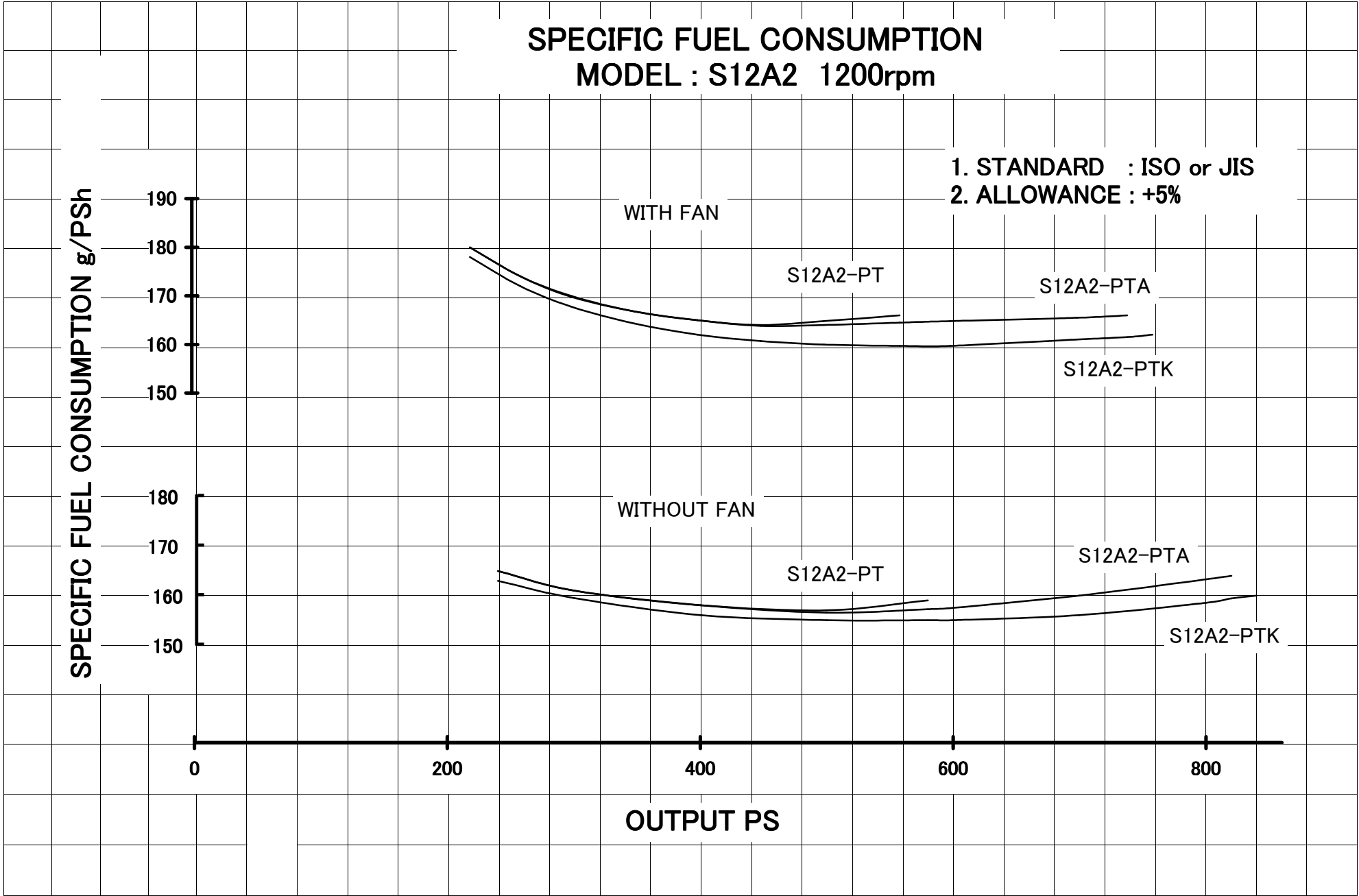
200

400

600

800

OUTPUT PS



# SPECIFIC FUEL CONSUMPTION MODEL : S12A2 1500rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

190  
180  
170  
160  
150

190  
180  
170  
160  
150  
140

0

200

400

600

800

1000

OUTPUT PS

WITH FAN

S12A2-PT

S12A2-PTA

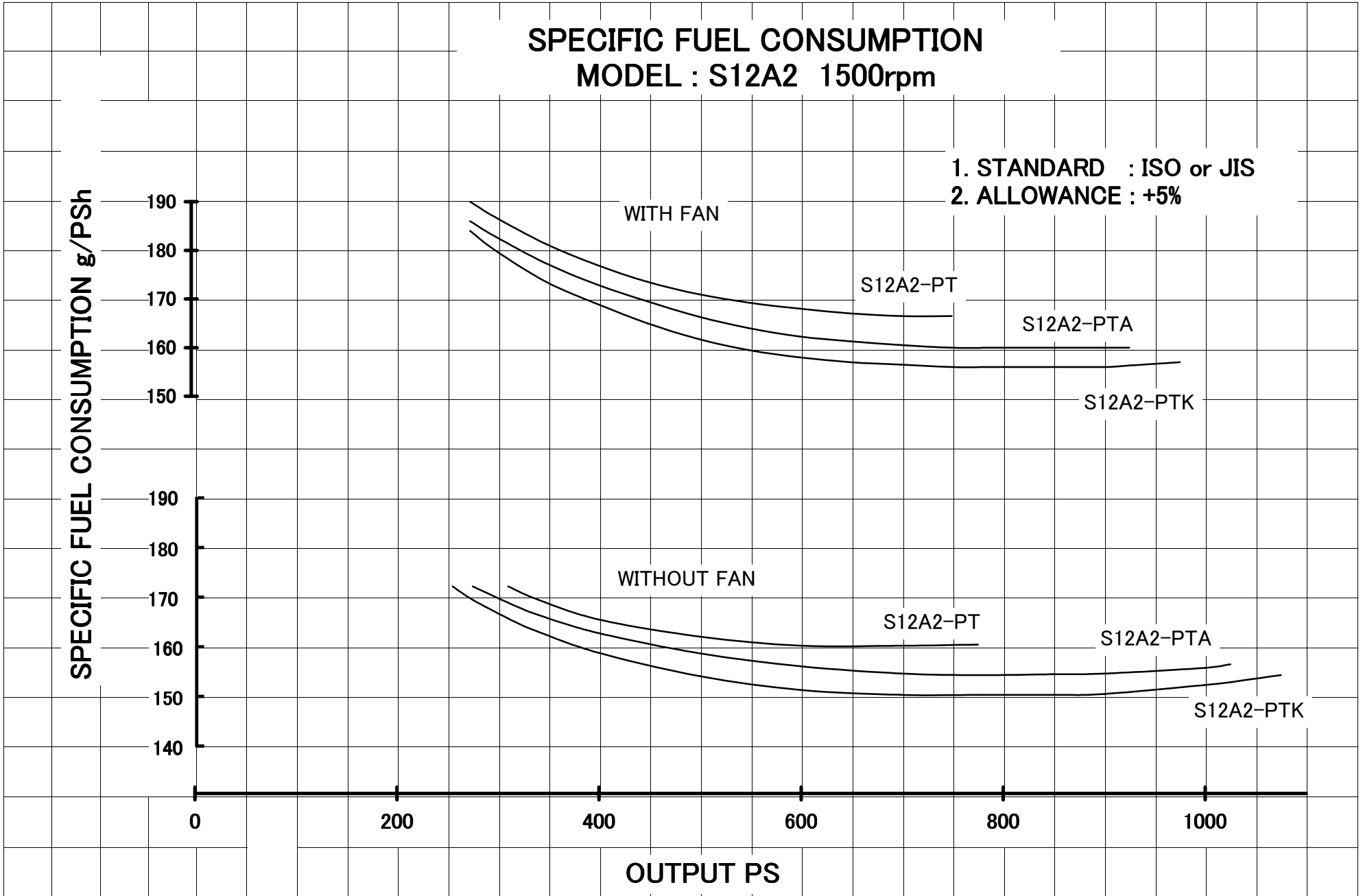
S12A2-PTK

WITHOUT FAN

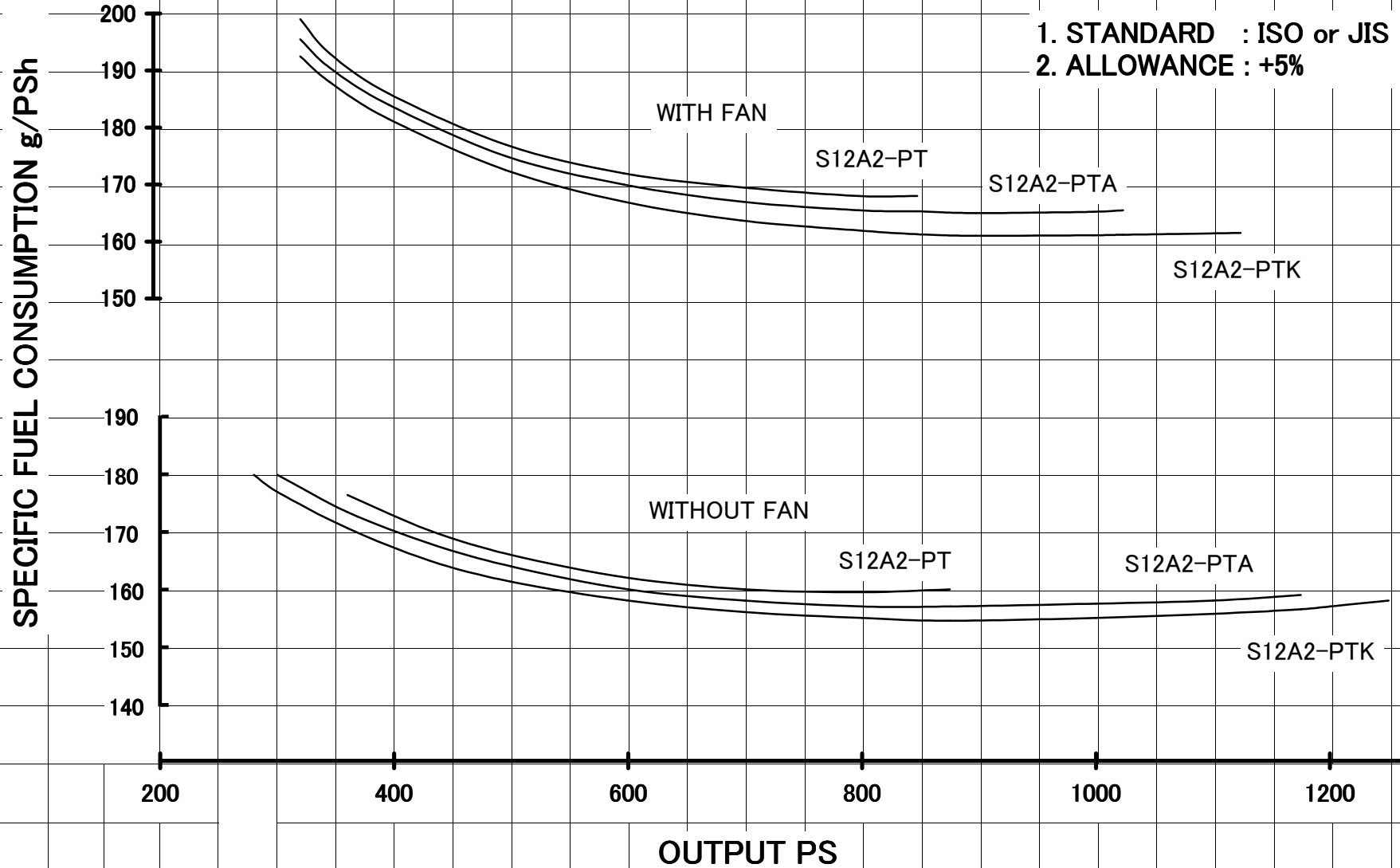
S12A2-PT

S12A2-PTA

S12A2-PTK

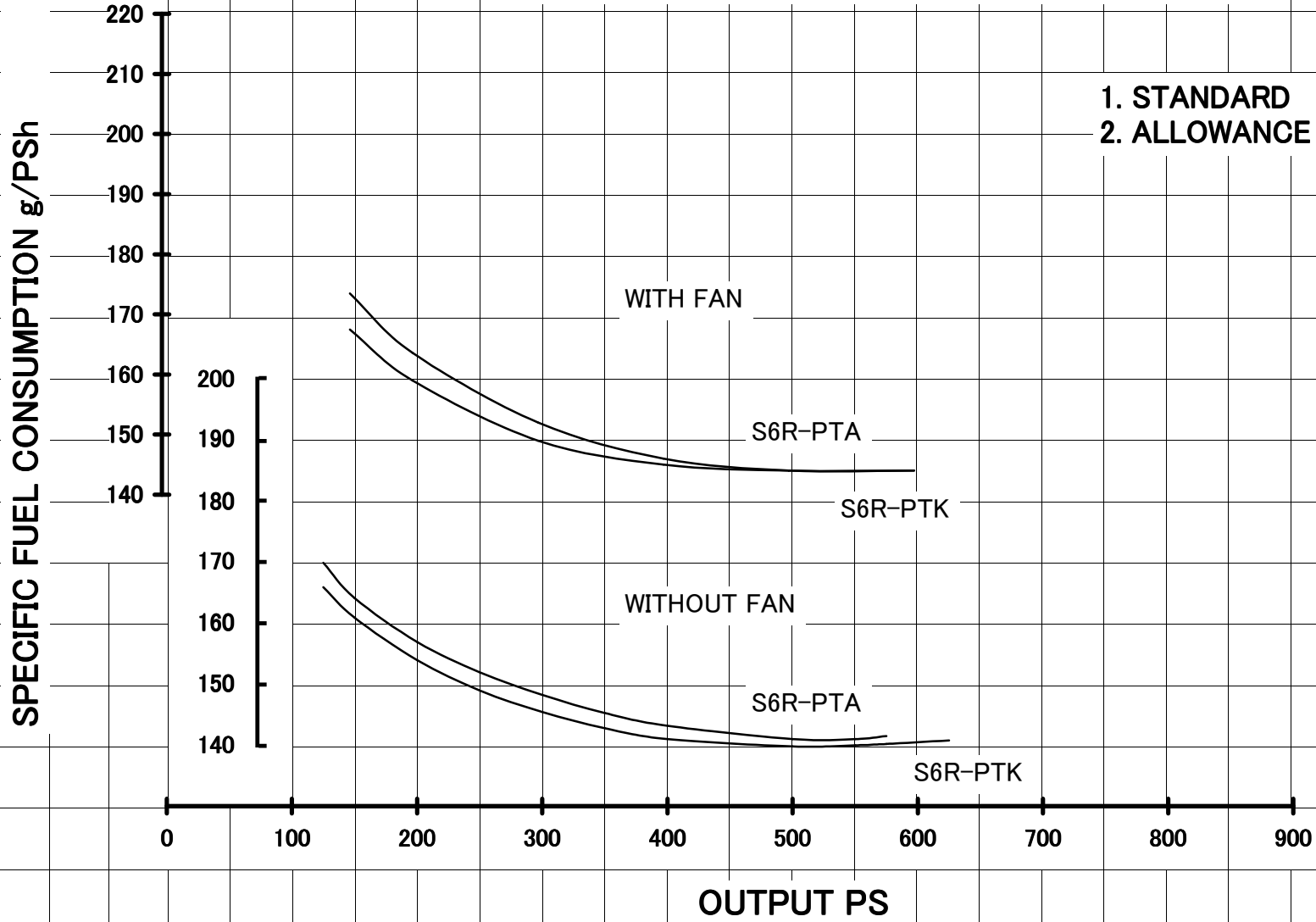


# SPECIFIC FUEL CONSUMPTION MODEL : S12A2 1800rpm



# SPECIFIC FUEL CONSUMPTION MODEL : S6R 1200rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

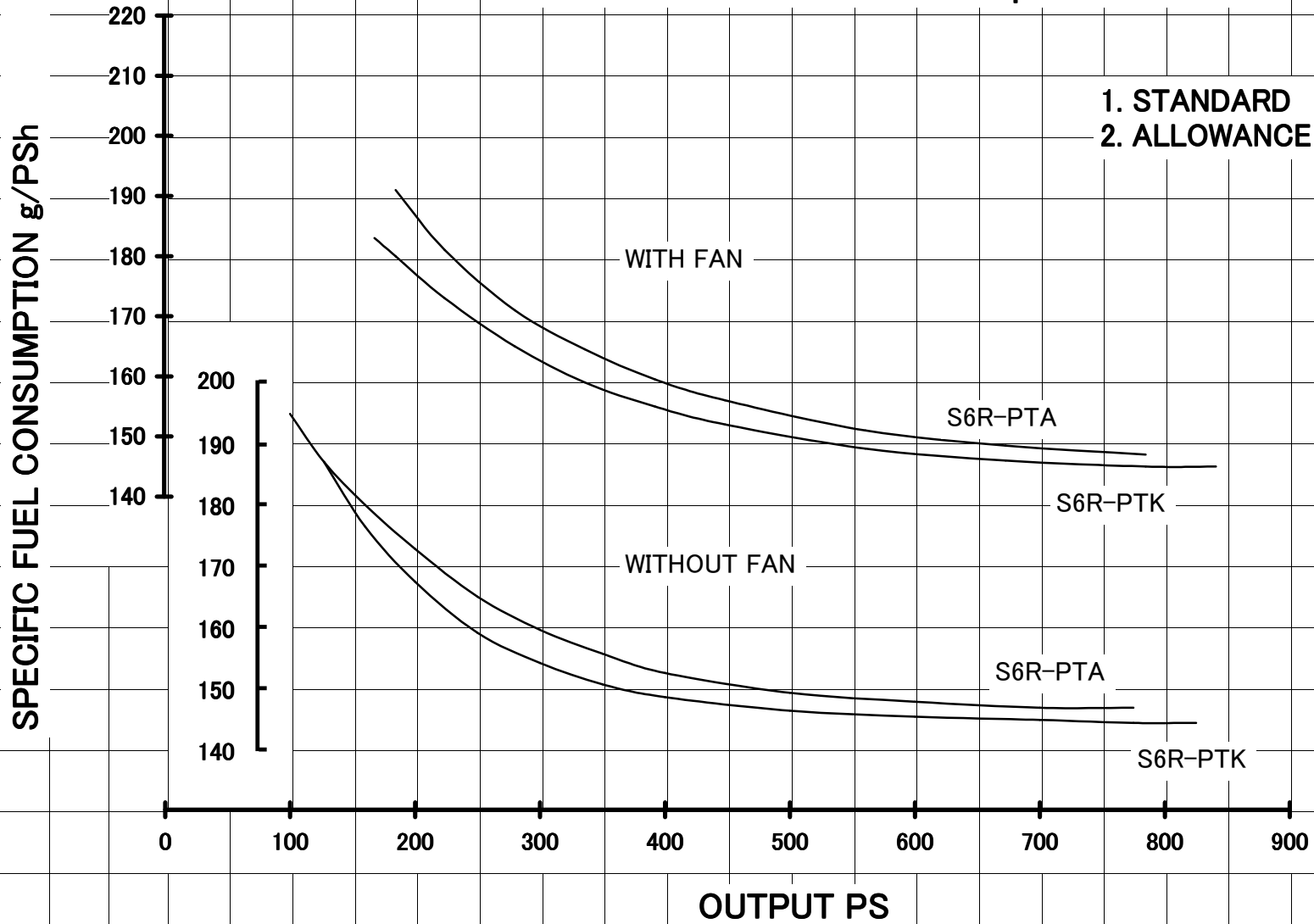


# SPECIFIC FUEL CONSUMPTION

MODEL : S6R 1500rpm

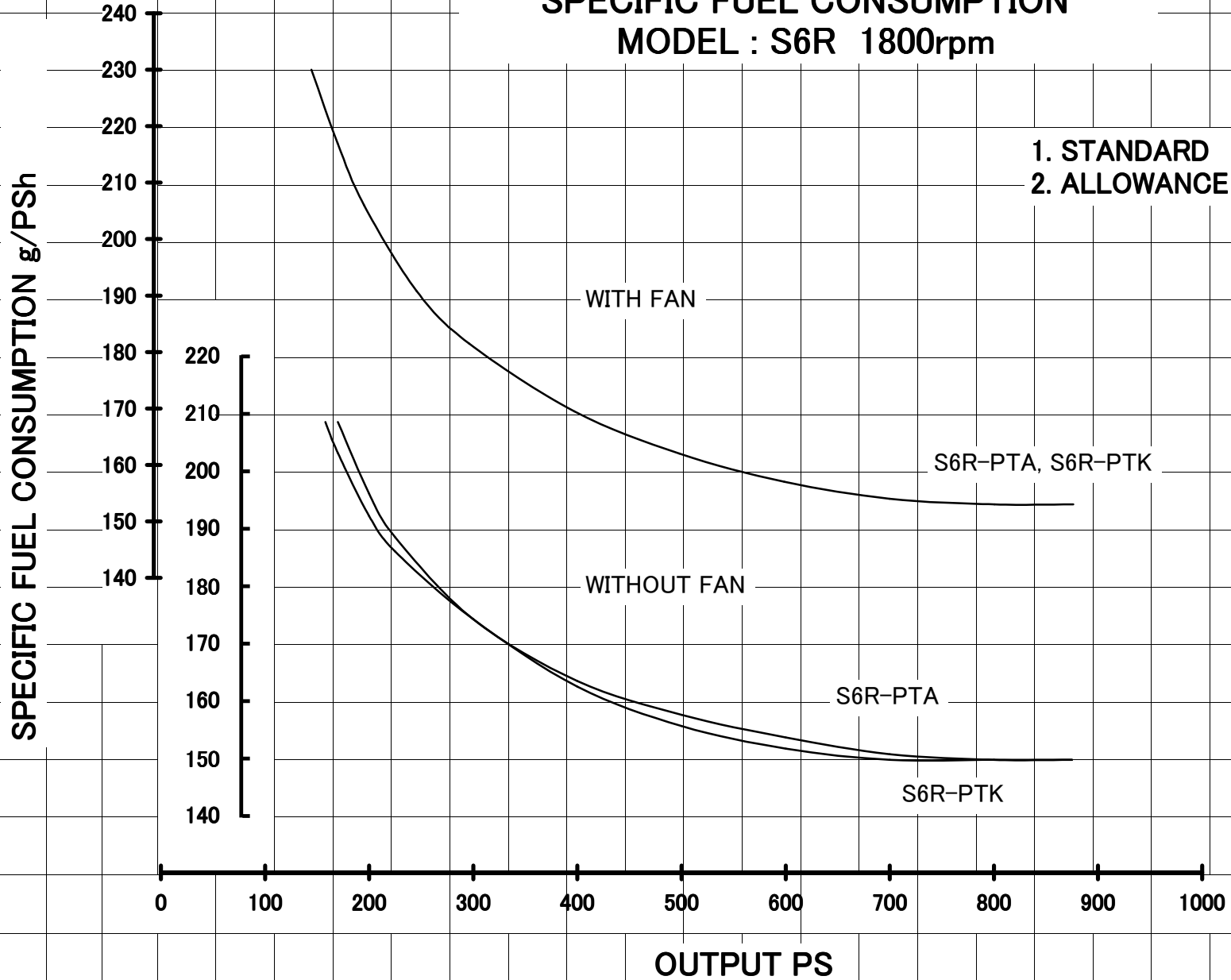
1. STANDARD : ISO or JIS

2. ALLOWANCE : +5%



# SPECIFIC FUEL CONSUMPTION MODEL : S6R 1800rpm

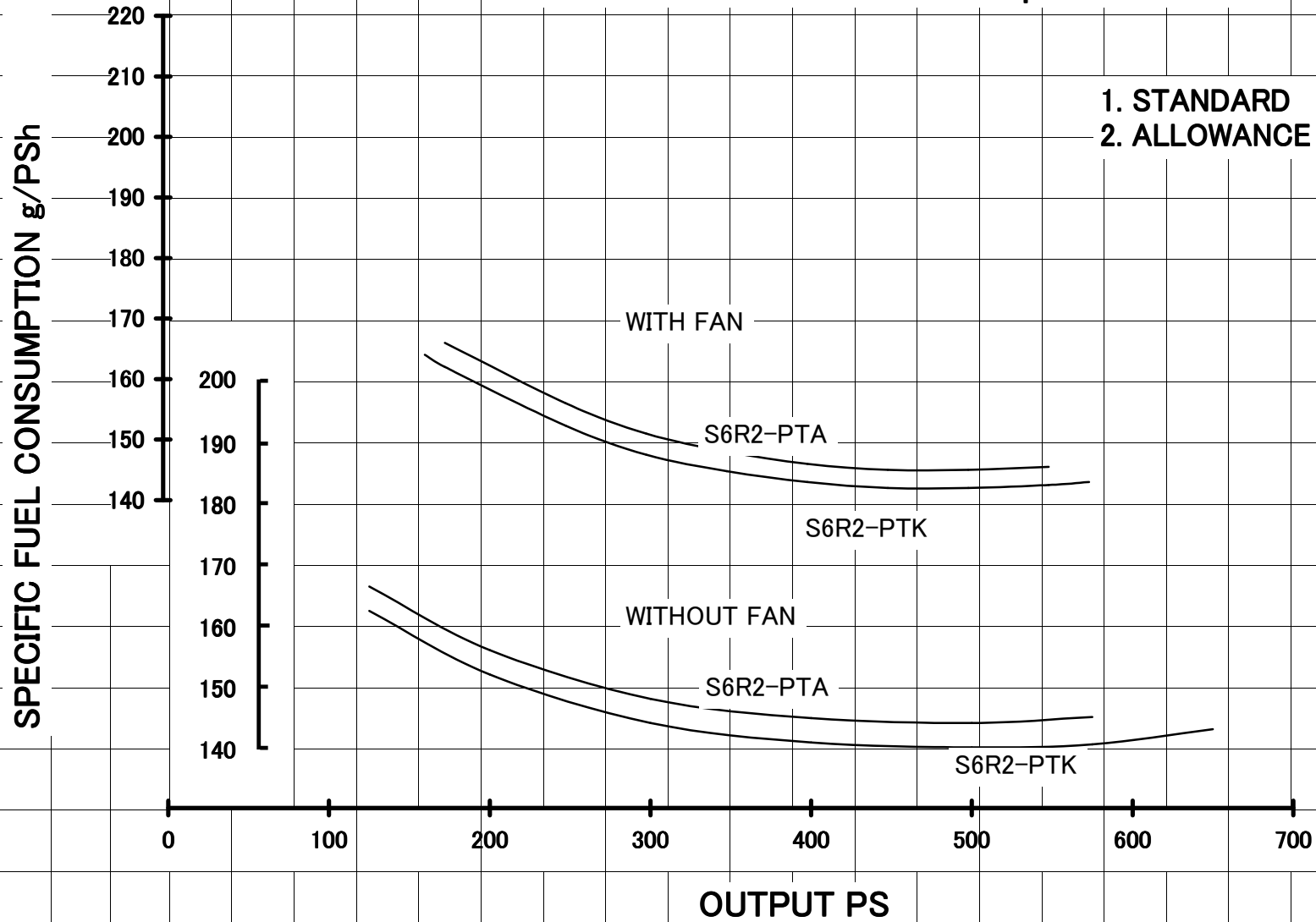
- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%





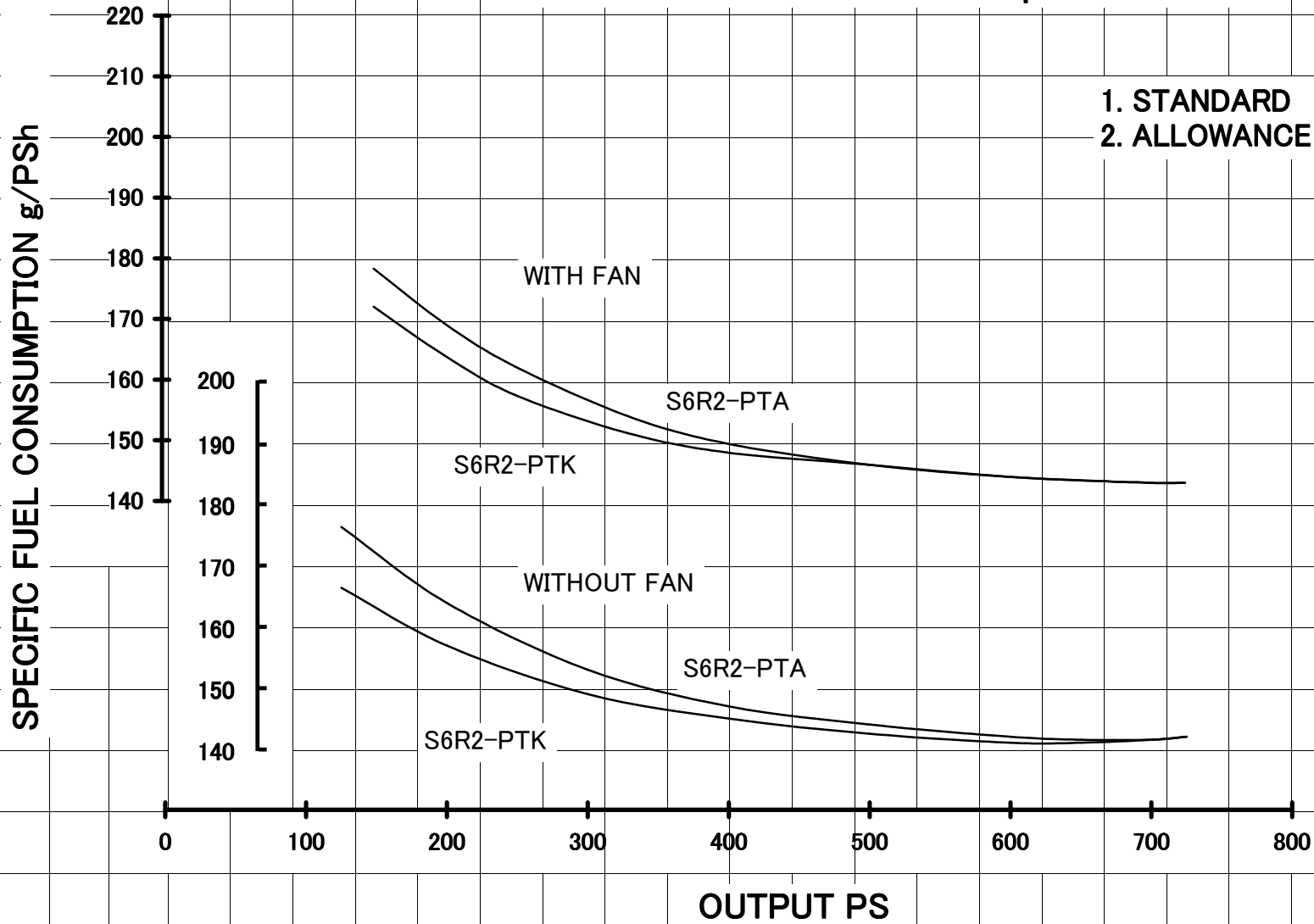
# SPECIFIC FUEL CONSUMPTION MODEL : S6R2 1000rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%



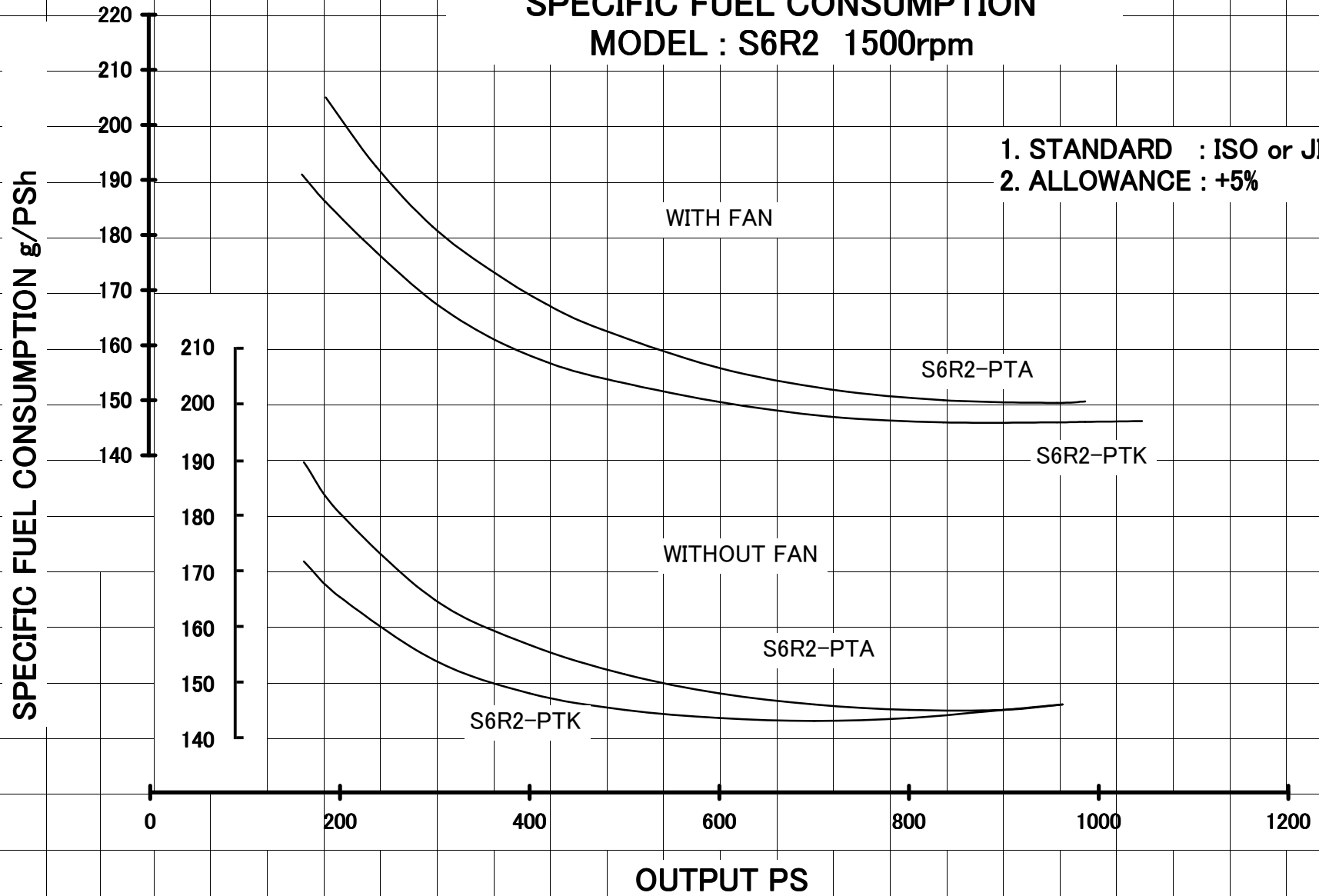
# SPECIFIC FUEL CONSUMPTION MODEL : S6R2 1200rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%



# SPECIFIC FUEL CONSUMPTION MODEL : S6R2 1500rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

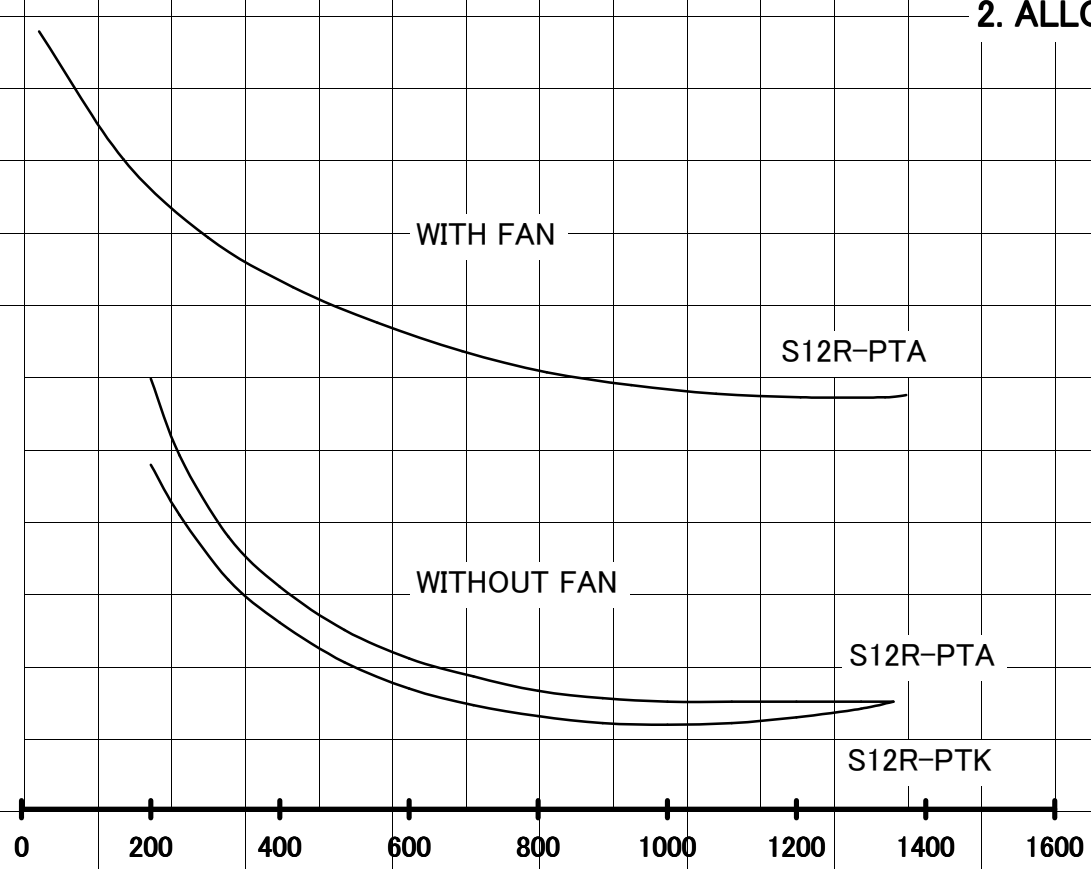


# SPECIFIC FUEL CONSUMPTION MODEL : S12R 1200rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

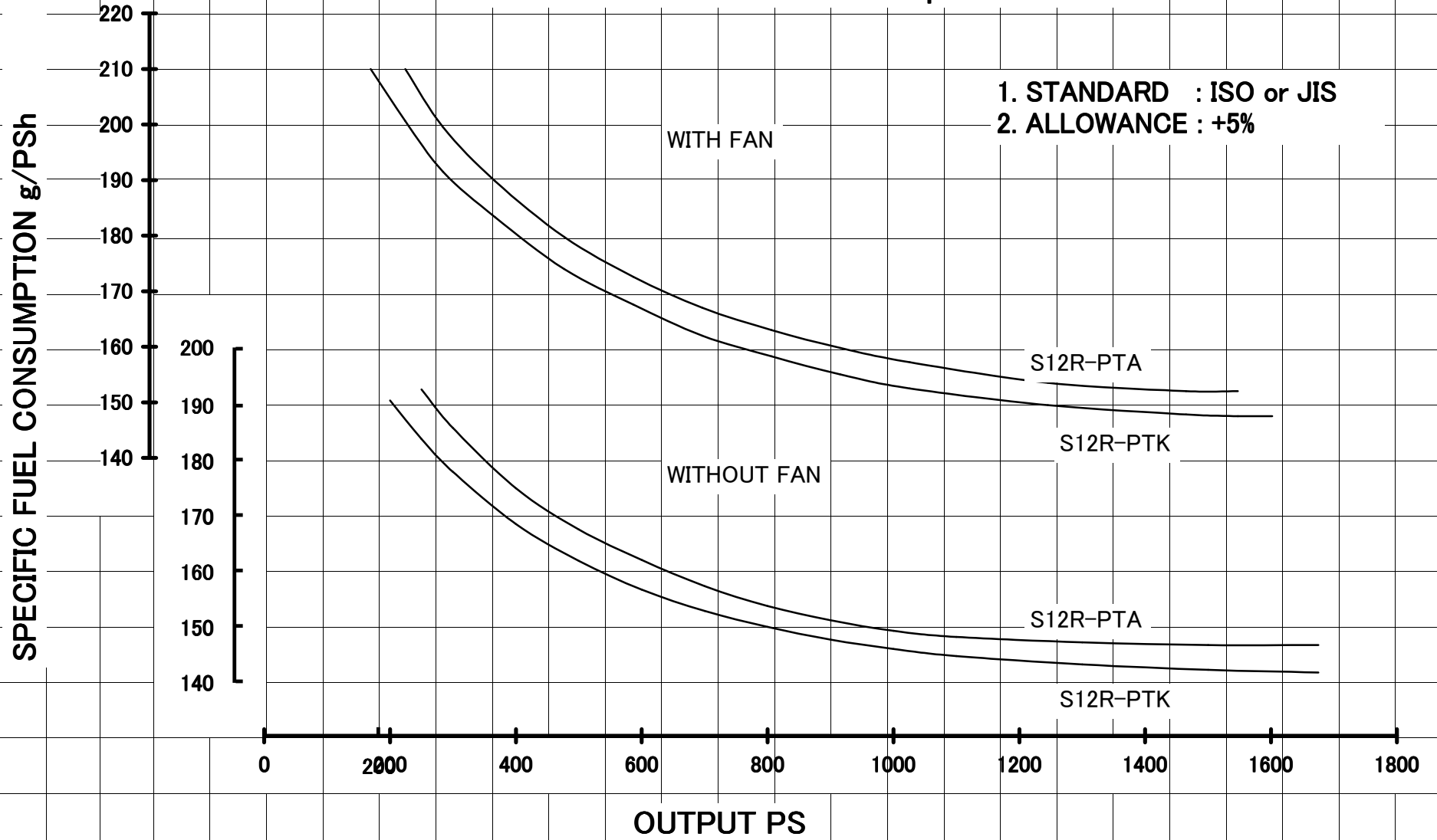
SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

200  
190  
180  
170  
160  
150  
140  
190  
180  
170  
160  
150  
140

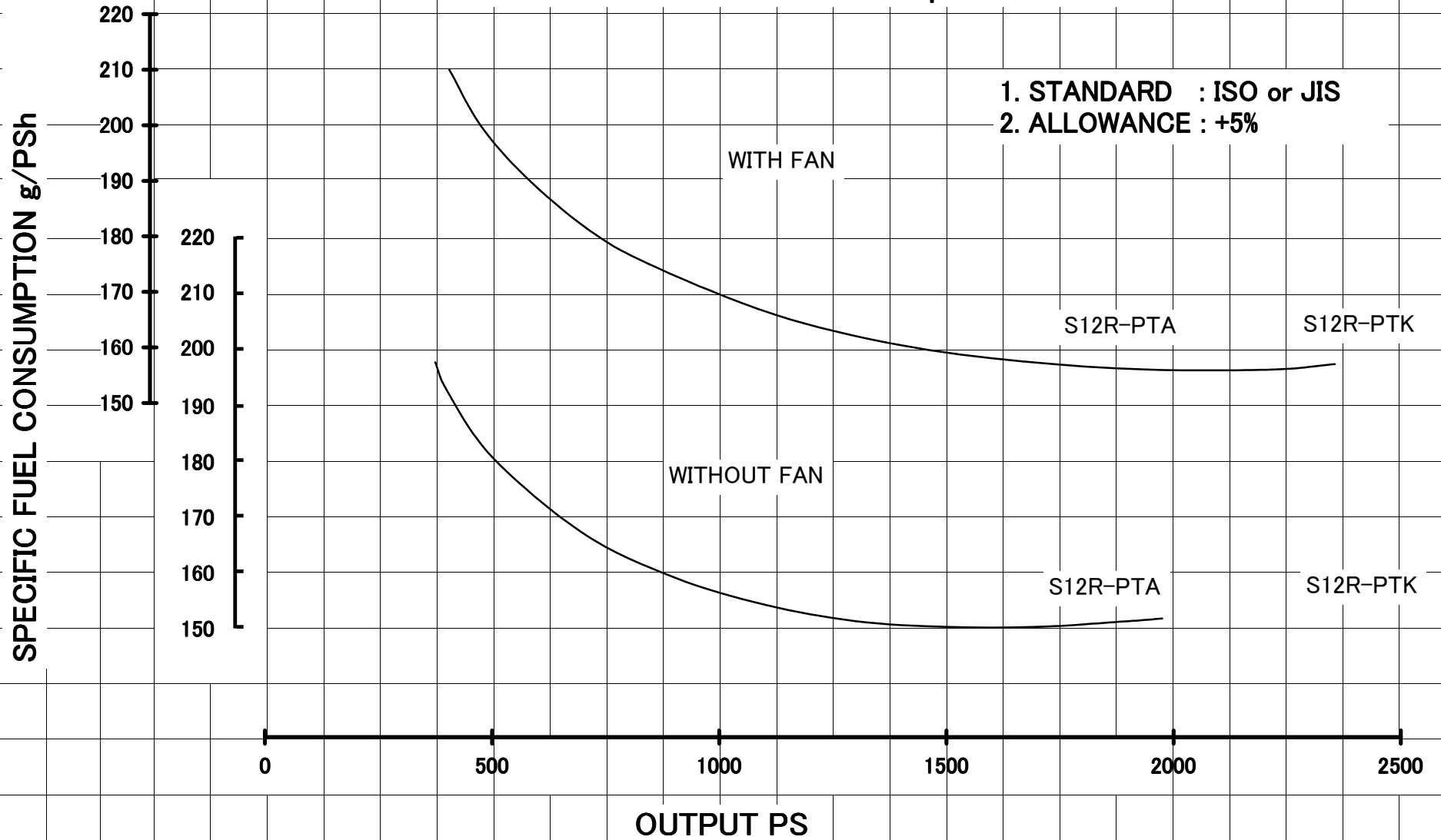


OUTPUT PS

# SPECIFIC FUEL CONSUMPTION MODEL : S12R 1500rpm

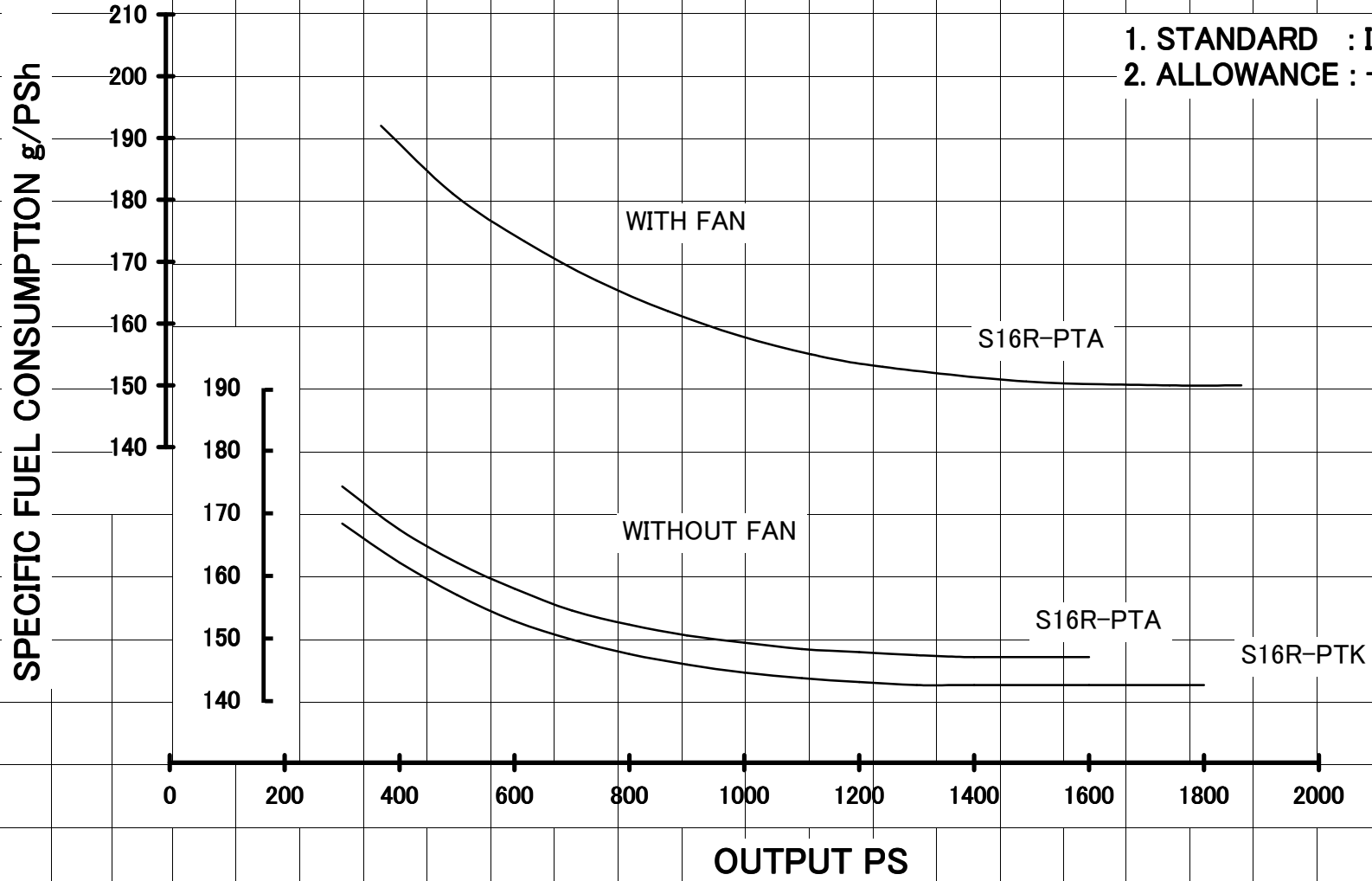


# SPECIFIC FUEL CONSUMPTION MODEL : S12R 1800rpm



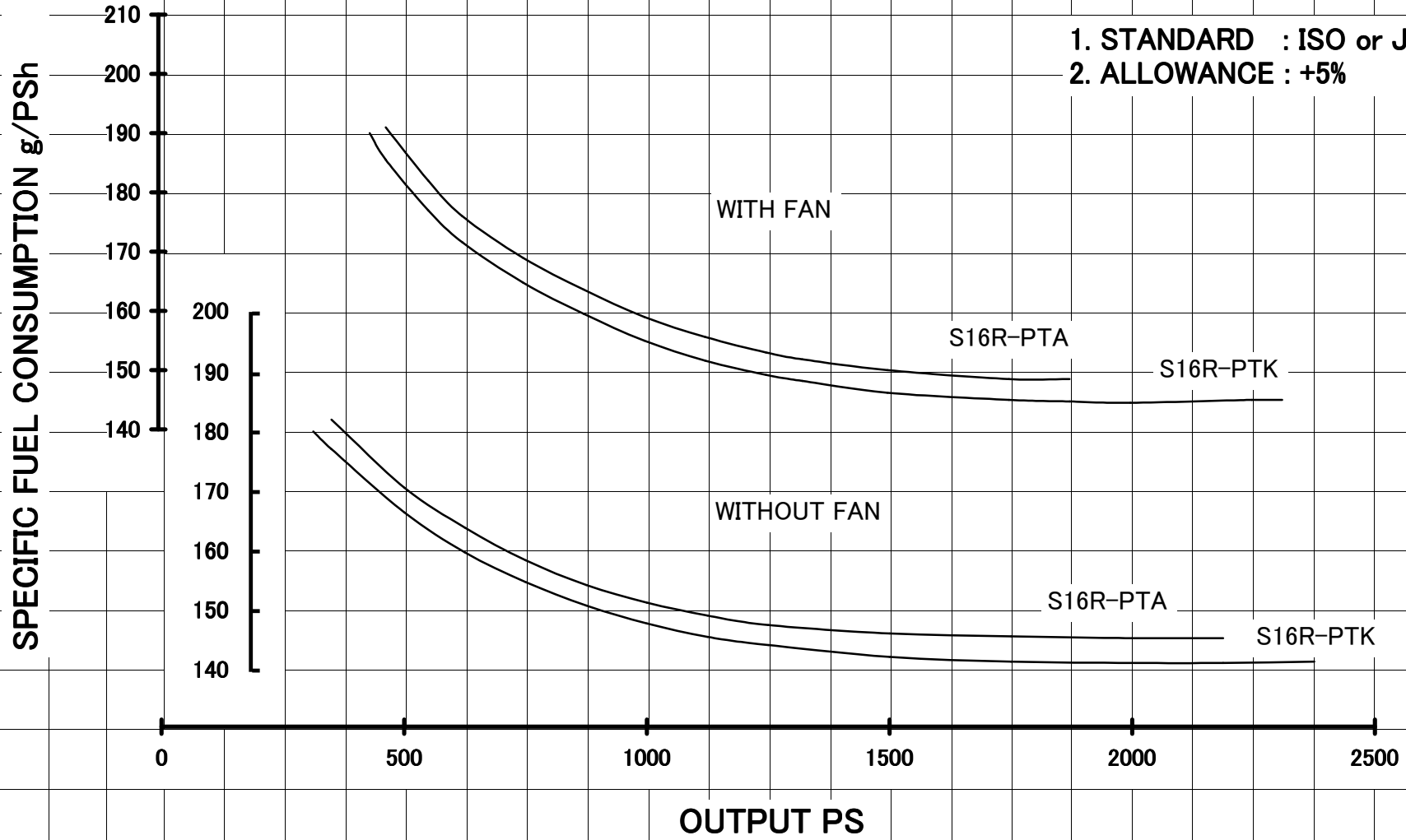
# SPECIFIC FUEL CONSUMPTION MODEL : S16R 1200rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%



# SPECIFIC FUEL CONSUMPTION MODEL : S16R 1500rpm

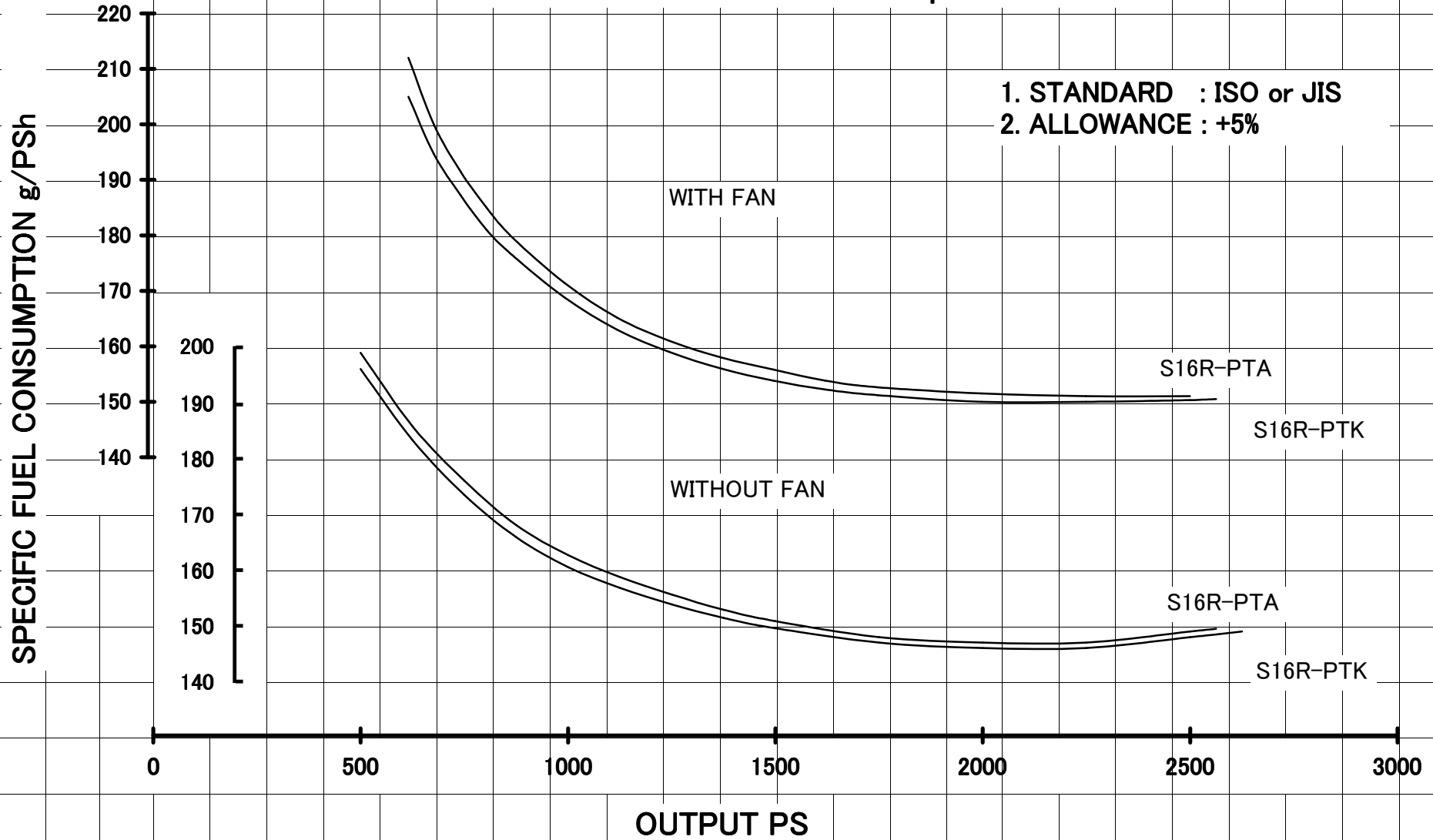
- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%





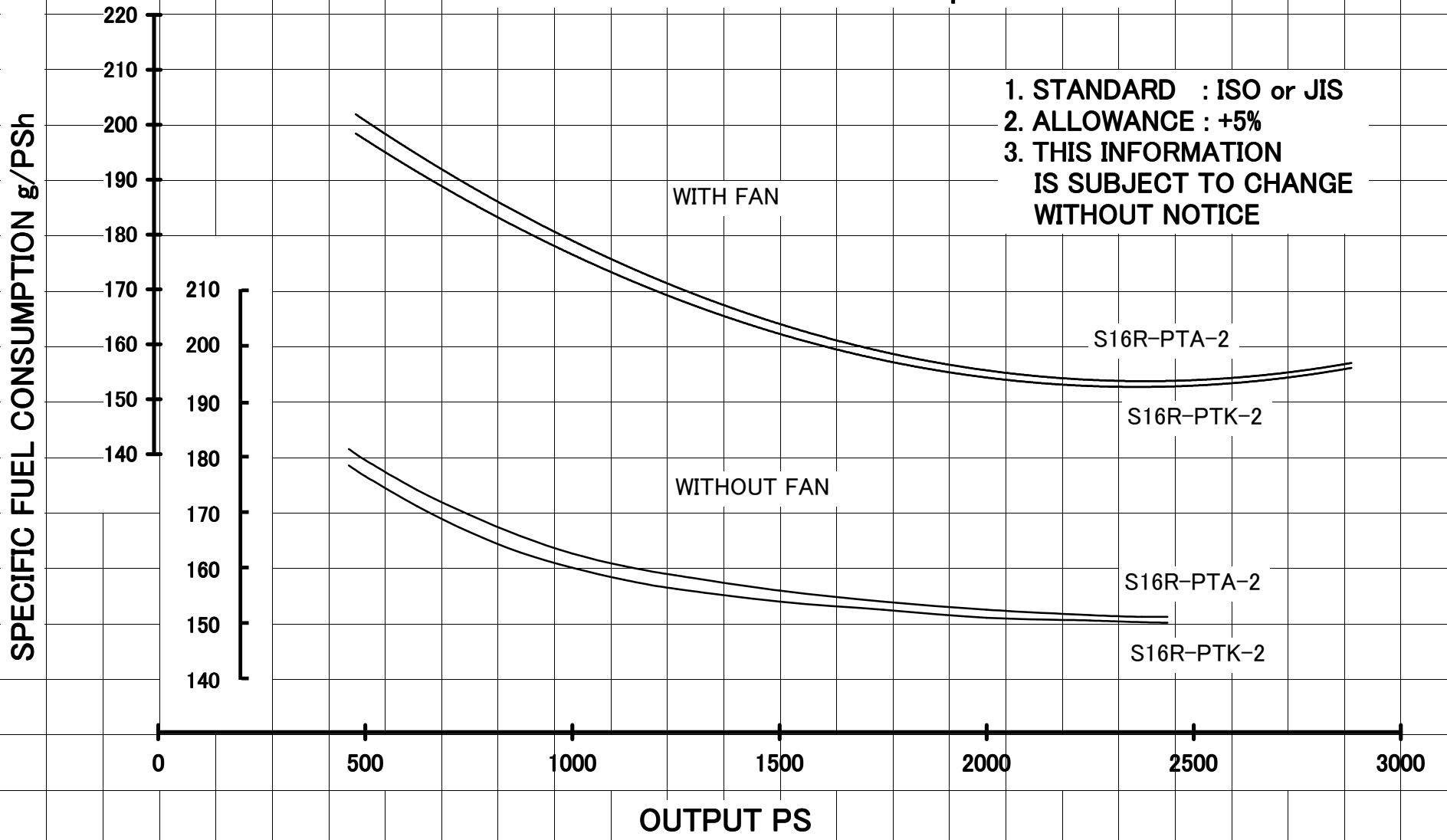
# SPECIFIC FUEL CONSUMPTION MODEL : S16R 1800rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%



# SPECIFIC FUEL CONSUMPTION MODEL : S16R-2 1500rpm

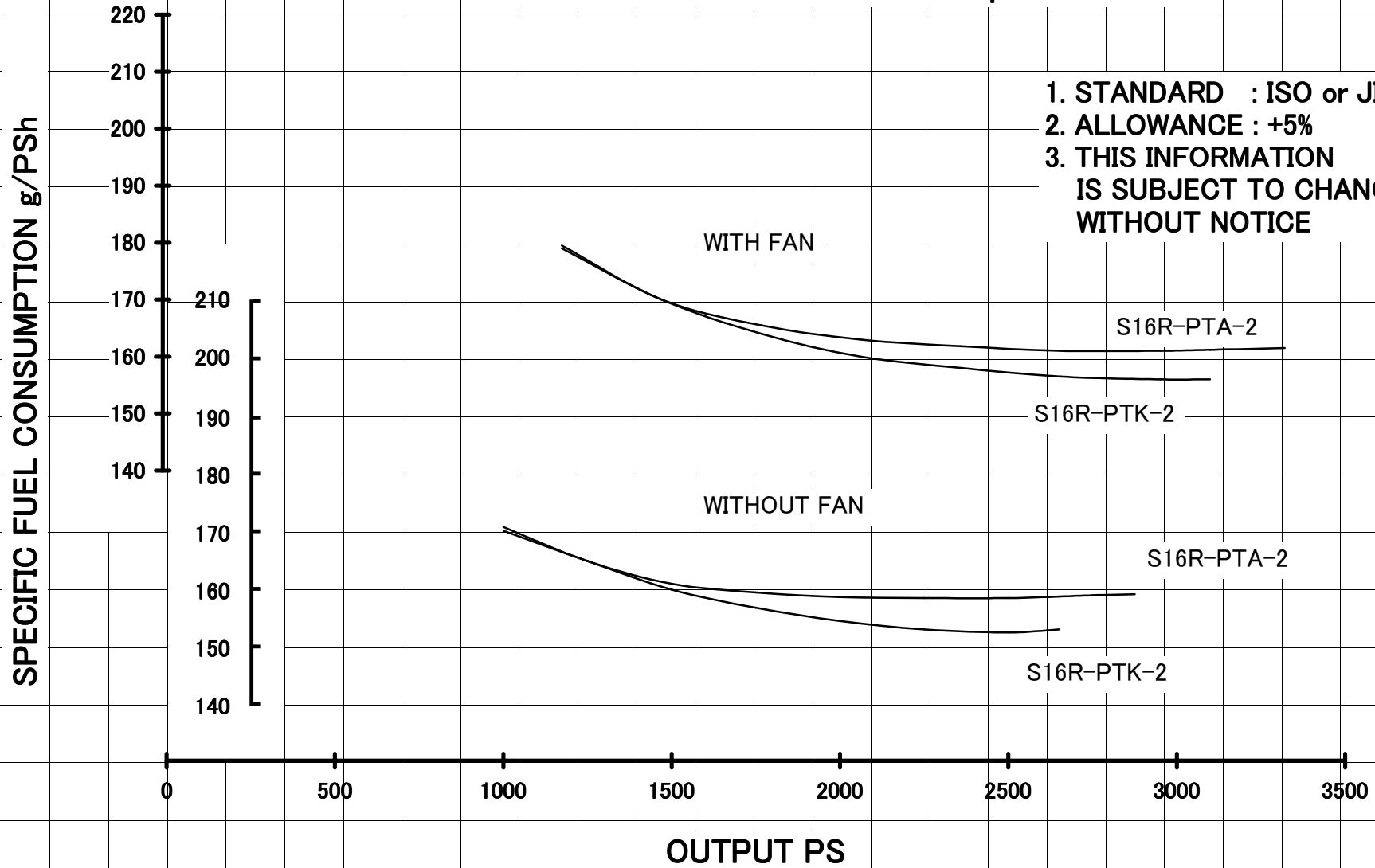
- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%
- 3. THIS INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE



# SPECIFIC FUEL CONSUMPTION

## MODEL : S16R-2 1800rpm

1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
3. THIS INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE



**SPECIFIC FUEL CONSUMPTION  
MODEL : S6R2-PTAA 1500rpm**

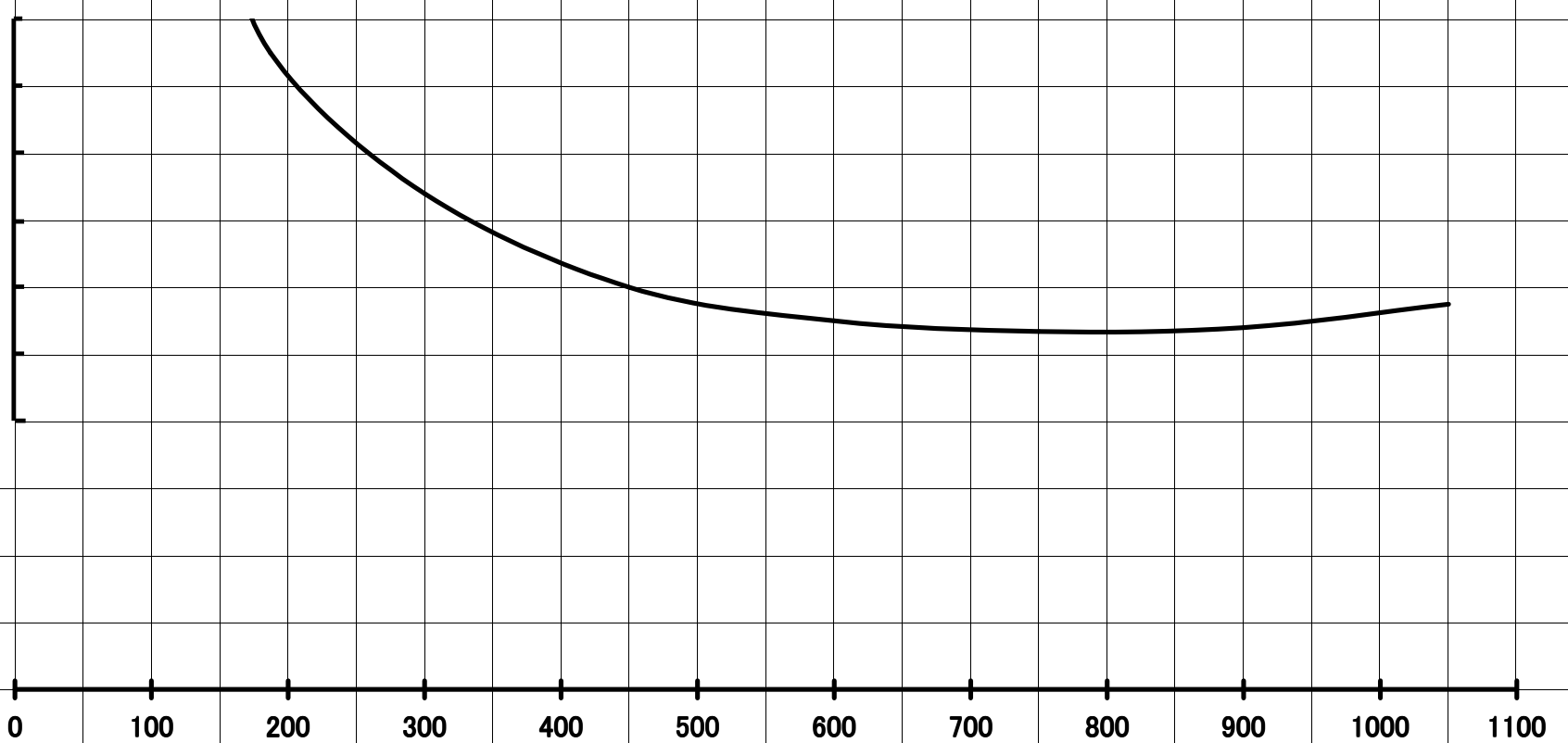
- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

**SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>**

200  
190  
180  
170  
160  
150  
140

0 100 200 300 400 500 600 700 800 900 1000 1100

**OUTPUT PS**



# SPECIFIC FUEL CONSUMPTION MODEL : S12H-PTA 1500rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

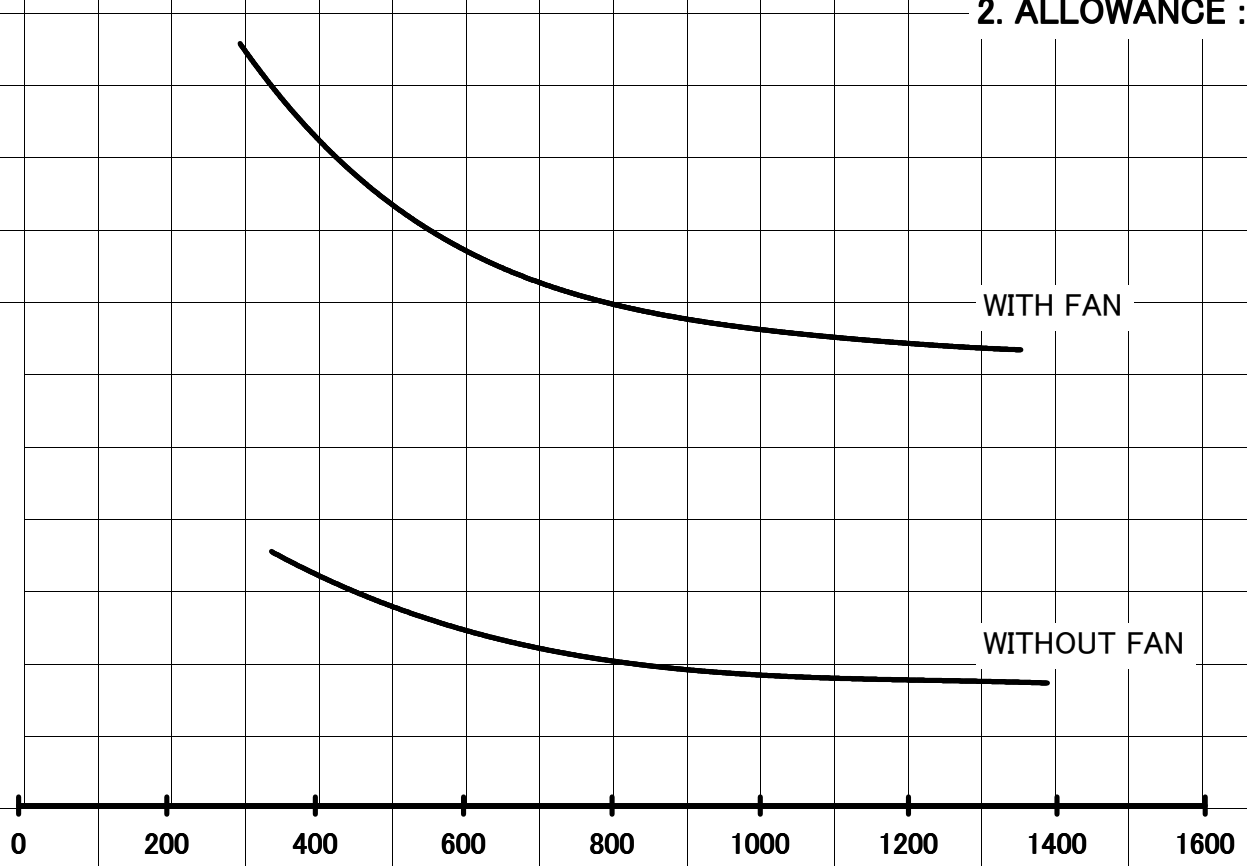
200  
190  
180  
170  
160  
150  
140  
190  
180  
170  
160  
150  
140

0 200 400 600 800 1000 1200 1400 1600

OUTPUT PS

WITH FAN

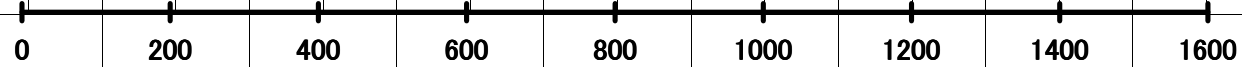
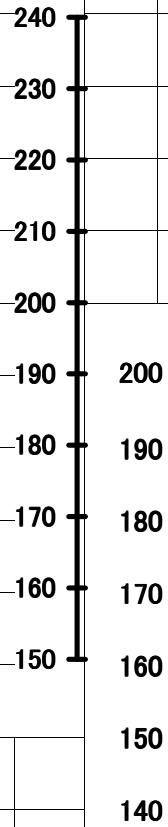
WITHOUT FAN



# SPECIFIC FUEL CONSUMPTION MODEL : S12H-PTA 1800rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

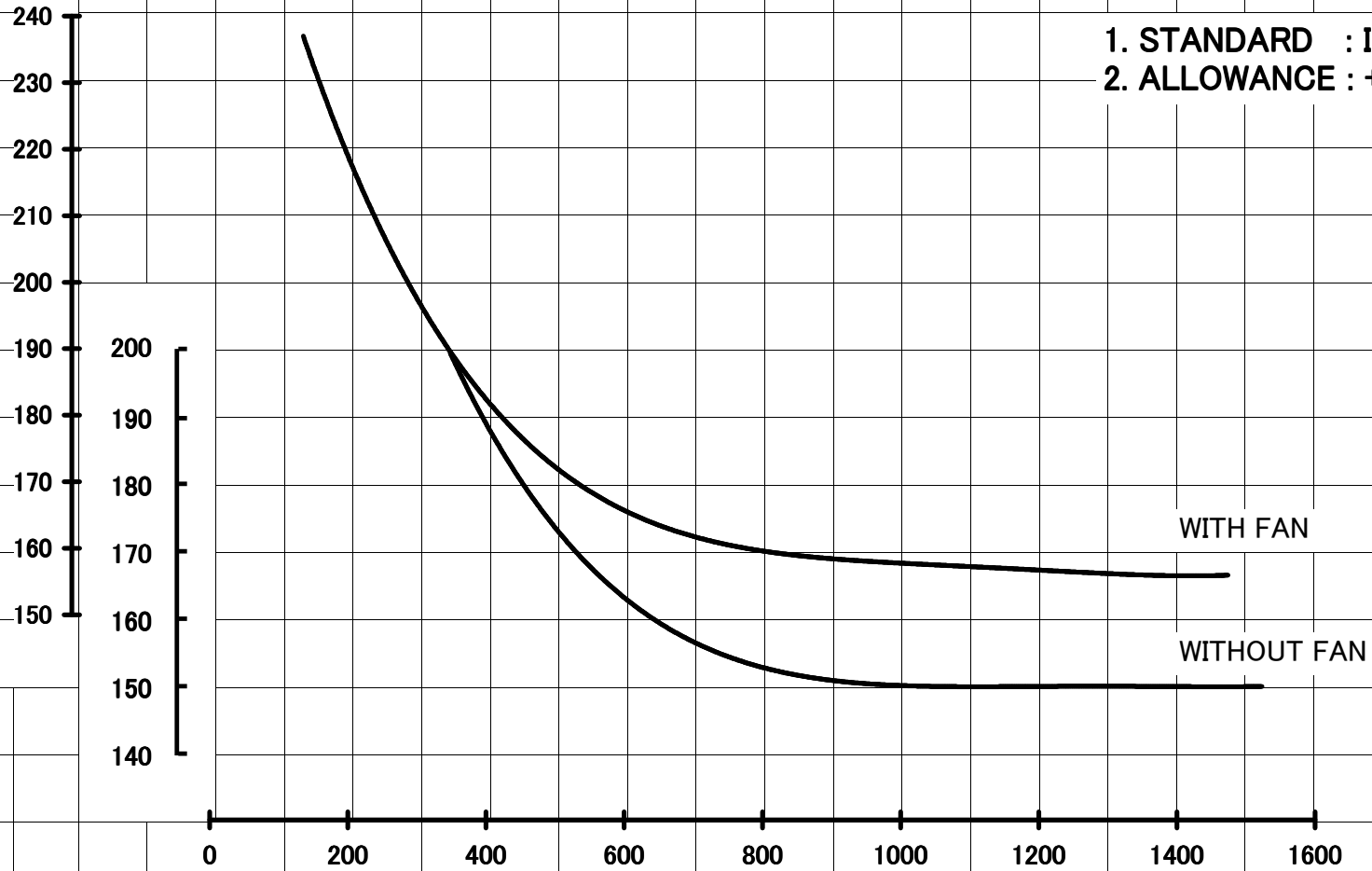
SPECIFIC FUEL CONSUMPTION g/PSH



OUTPUT PS

WITH FAN

WITHOUT FAN



# SPECIFIC FUEL CONSUMPTION MODEL : S12R-PTAA2

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

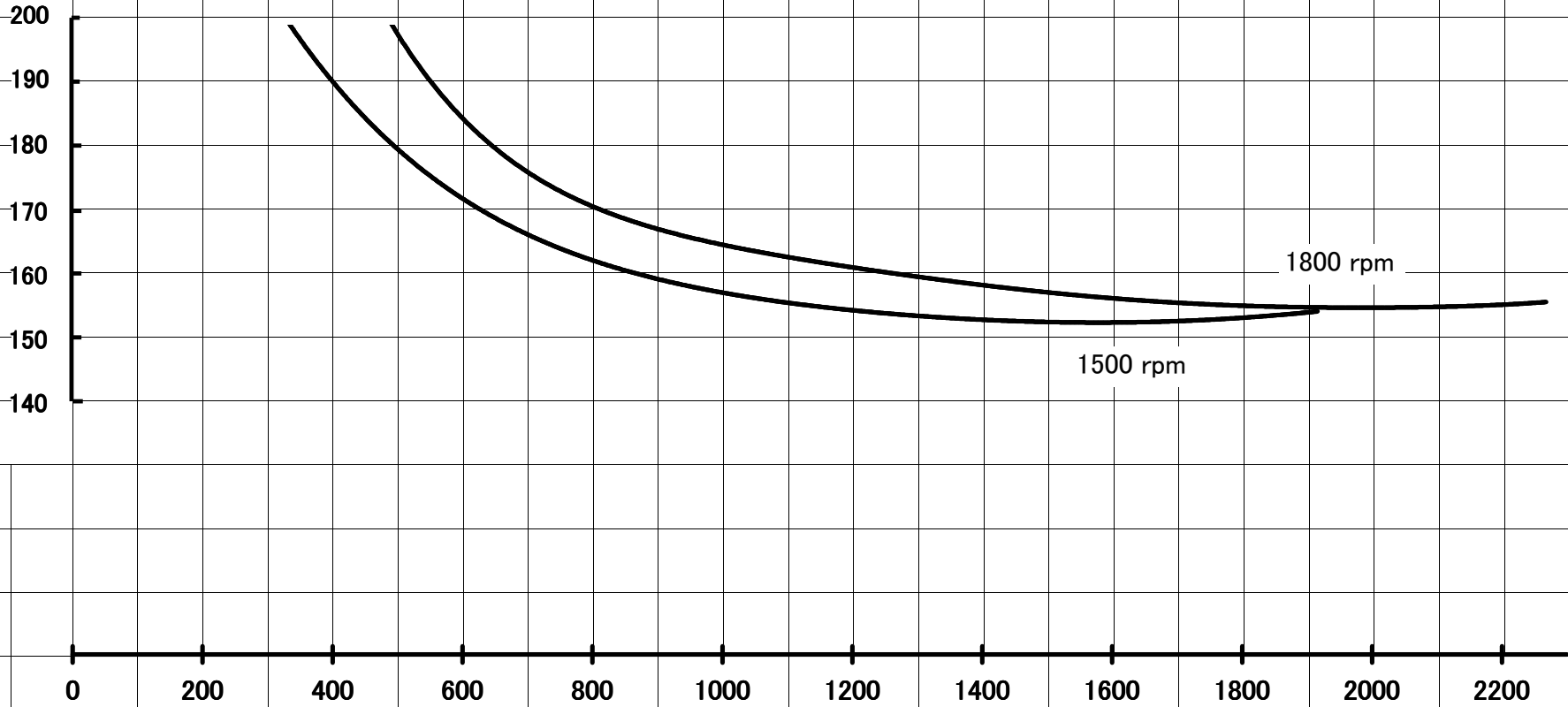
200  
190  
180  
170  
160  
150  
140

0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200

OUTPUT PS

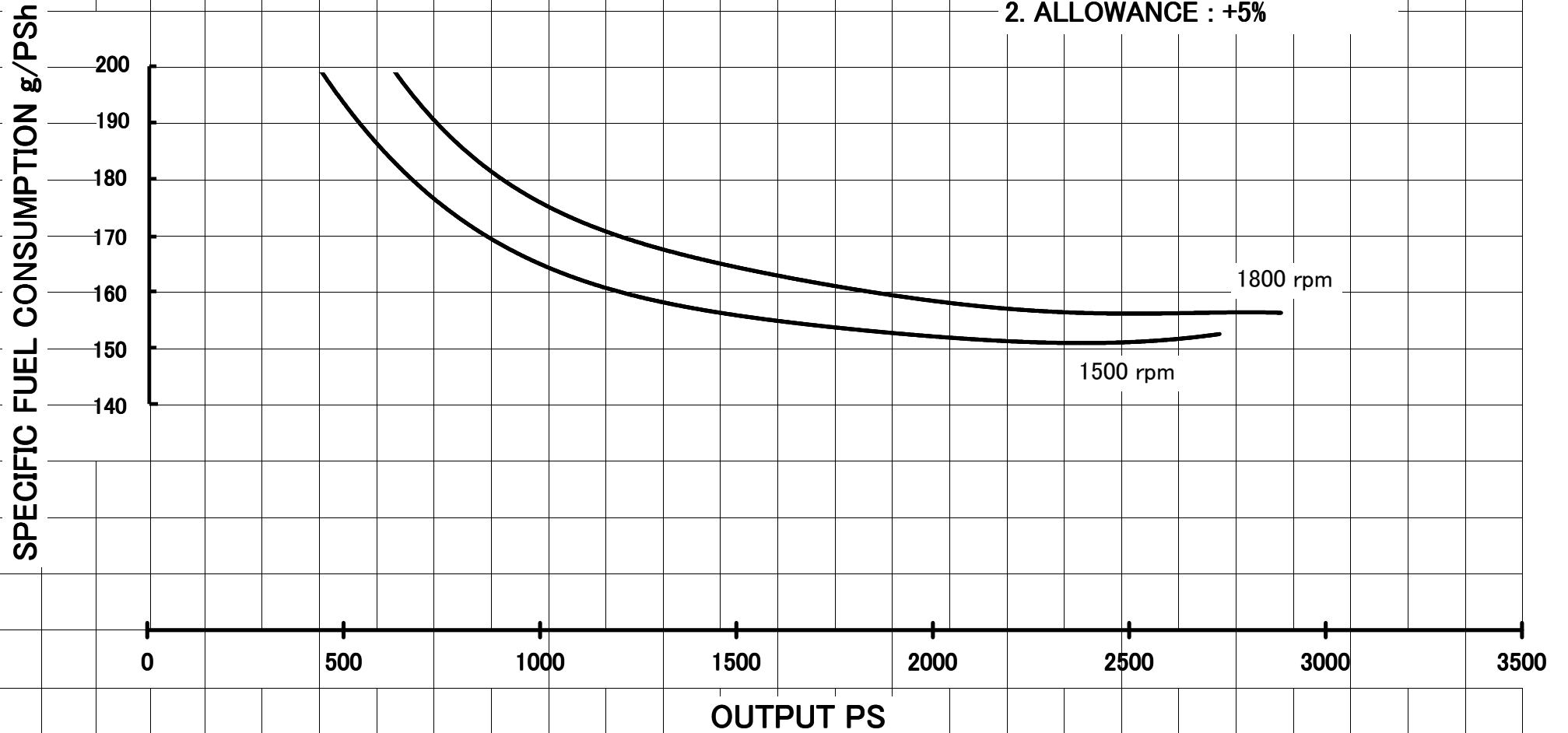
1500 rpm

1800 rpm



# SPECIFIC FUEL CONSUMPTION MODEL : S16R-PTAA2

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%





# SPECIFIC FUEL CONSUMPTION MODEL : S12R-2 1500rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

SPECIFIC FUEL CONSUMPTION g/PS<sub>h</sub>

220  
210  
200  
190  
180  
170  
160  
150  
140

200  
190  
180  
170  
160  
150  
140

0 200 500 1000 1500 2000 2100

OUTPUT PS

WITH FAN

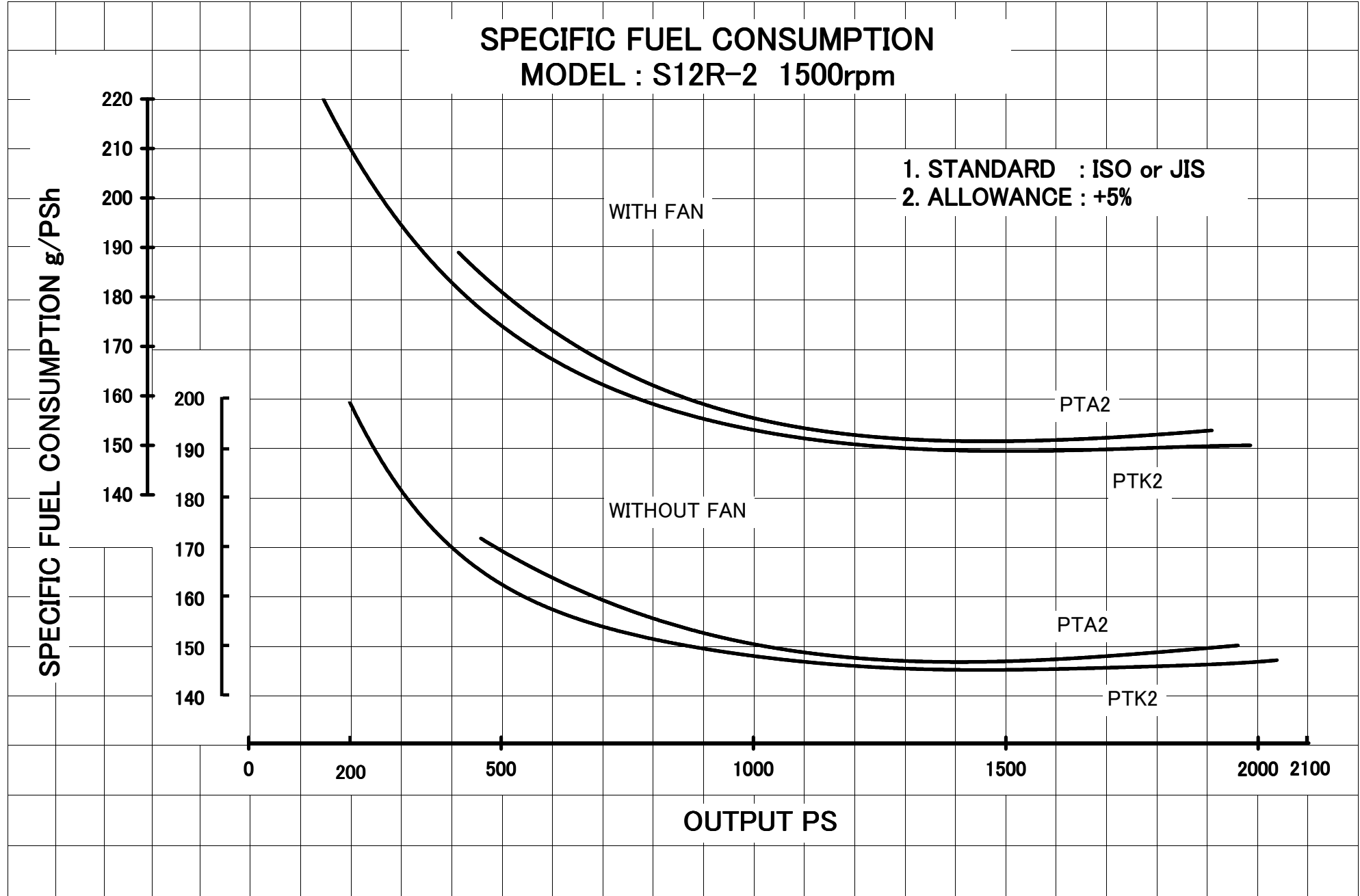
WITHOUT FAN

PTA2

PTK2

PTA2

PTK2



# SPECIFIC FUEL CONSUMPTION MODEL : S12R-2 1800rpm

- 1. STANDARD : ISO or JIS
- 2. ALLOWANCE : +5%

