MITSUBISHI S6A3-PTAA

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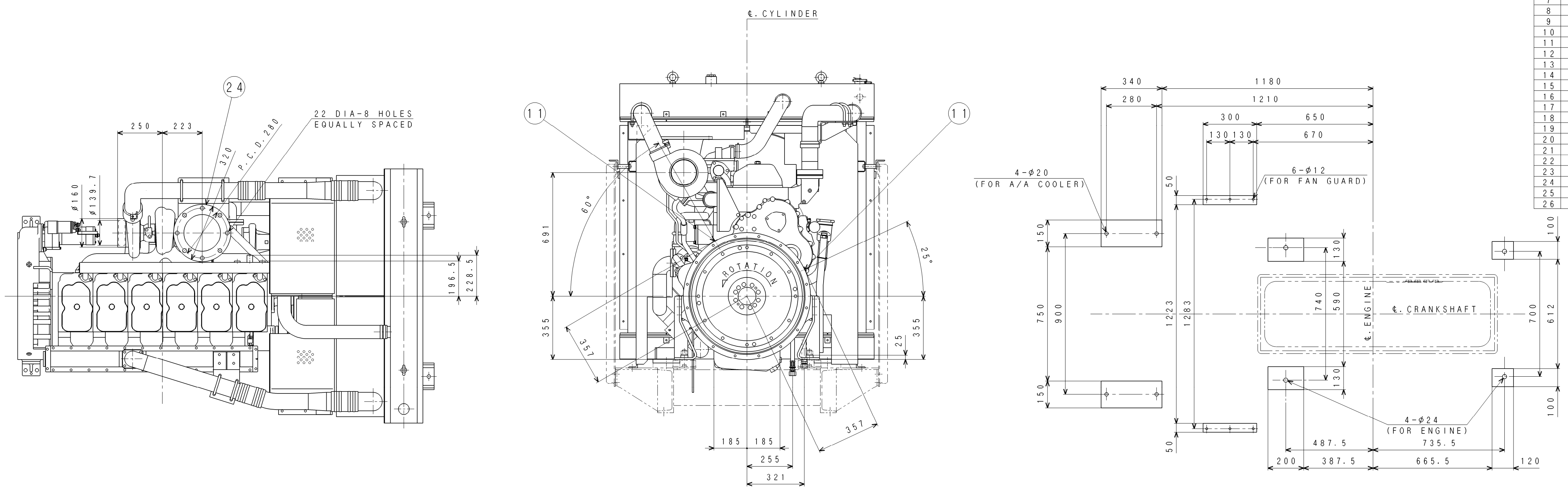
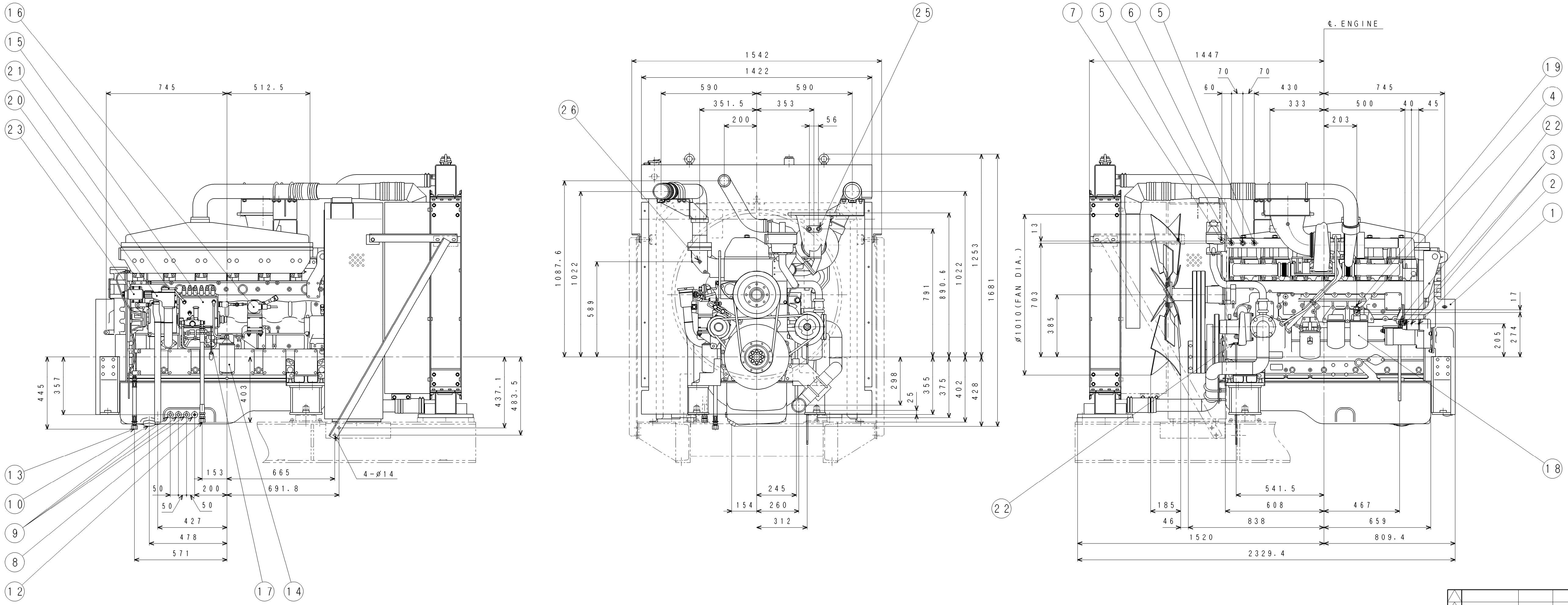
www.powerhouse.se

NO.	PARTS NANE	SIZE	REFERENCE
1	FLYWHEEL & HOUSING		35A96-21001
2	OIL PRESS. GAGE UNIT JOINT	Rc1/8	35A96-01021
3	OIL PRESS. SWITCH JOINT	Rc1/8	
4	OIL PRESS. SWITCH JOINT	Rc1/8	
5	THERMOSWITCH JOINT	M16x1.5	
6	THERMOSWITCH JOINT	Rc1/2	
7	THERMOMETER UNIT JOINT	Rc1/2	
8	OIL PAN (A) JOINT	M16x1.5	
9	OIL PAN (B) JOINT	M20x1.5	
10	OIL PAN (C) JOINT		
11	PICKUP JOINT	UNF5/8-18	
12	FUEL INLET PIPE JOINT	Rc1/2	
13	FUEL RETURN PIPE JOINT	Rc1/2	35A96-01021
14	FUEL FILTER		
15	FUEL INJECTION PUMP		
16	GOVERNOR		
17	OIL LEVEL GAGE		
18	OIL FILTER		
19	OIL BY-PASS ALARM SWITCH		35A96-01021
20	BREATHER		
21	OIL FILLER		
22	WATER DRAIN COCK		
23	STOP SOLENOID		
24	EXHAUST FLANGE	200A	
25	THERMOMETER.EX.JOINT	G3/4	35A96-01021
26	AIR PRESS. GAGE JOINT	Rc1/8	35A96-01021





NOTES (2) THE GOVERNOR ON THIS DRAWING IS ELECTRIC GOVERNOR.
(1) THIS ENGINE WEARS TD13L43QRC40/15000RPM, TD13L45QRC47/1800RPM TURBO CHARGER.

注記 (2) 本図のガバナは、電子ガバナ仕様である。
(1) 三菱TD13L43QRC40/1500RPM, TD13L45QRC47/1800RPMターボ装着。

出図 相製 1998 11.11

FULL-CAD

CHG	EO-NO	DATE	CHK

3rd ANGLE PROJECTION
尺度 SCALE 1 : 10

S6A3-PTAA
DIESEL ENGINE
三菱重工業株式会社相模原製作所
SAGAMIHARA MACHINERY WORKS.MITSUBISHI HEAVY INDUSTRIES.LTD.

認可 APPD 清岡 | 検図 CHK 仁尾 竹谷 小倉 | 製図 DRN 佐藤 1998.11.6

図面番号 DRAWING NO. 35A96-00401

③新図 4 旧引図 | サイズ A0 | ①組立図 | 2 鋳鍛歯車品 3 板金溶接品 4 組立品 5 切削品 6 その他(購入品)

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
		T.HASHIGUCHI	T.OGURA	K.NAKAMURA

GENERAL ENGINE DATA

Type	4-Cycle, Water Cooled	
Aspiration	Turbo-Charged, Air to Air Cooler	
Cylinder Arragement	Inline	
No.of Cylinders	6	
Bore mm(in.)	150	(5.91)
Stroke mm(in.)	175	(6.89)
Displacement liter(in^3)	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^2(lbf·ft^2)	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)

AIR INLET SYSTEM

Maximum Intake Air Restriction (Includes piping)		
With Clean Filter Element - mm H_2O (in.H_2O)	400	(15.7)
With Dirty Filter Element - mm H_2O (in.H_2O)	635	(25.0)

EXHAUST SYSTEM

Maximum Allowable Back Pressure - mm H_2O (in.H_2O)	600	(23.6)

LUBRICATION SYSTEM

Oil Pressure at Idle - kgf/cm^2(psi)	2～3	(29～43)
at Rate Speed - kgf/cm^2(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 Capactiy - 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^2(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^2(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_2O(in.H_2O)	10	(0.4)

The specifications are subject to change without notice.

APPLICATION : GENERATOR

Feb. '14 Printed in Japan

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

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 ($in.^3$)	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^2 (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^3/min (CFM)	46 (1624)	40 (1412)		41 (1448)	37 (1306)	
Exhaust Gas Flow	m^3/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^3/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

Feb. '14 Printed in Japan

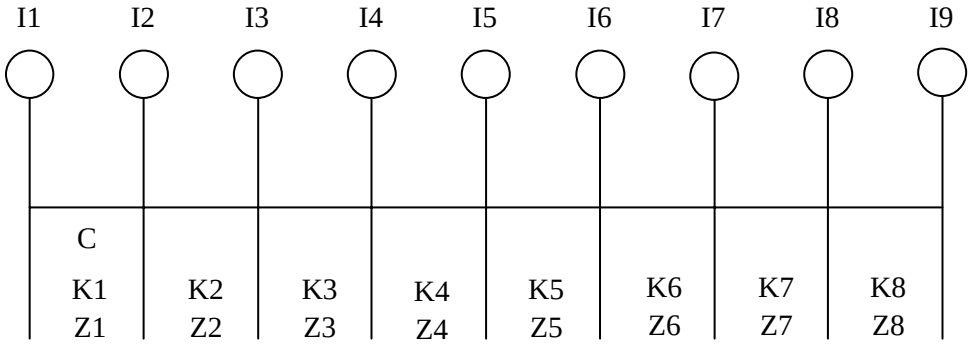
MITSUBISHI DIESEL ENGINE TECHNICAL INFORMATION	ITEM NO.	T0307-0003E (1/2)
	DATE	July, 2006

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
		S.MATSUSHITA	T.HASHIGUCHI	T.H.

S6A3-PTA ELASTIC DATA



		Moment of inertia J kg.m^2	Damping coefficient Nm/rad/s	Spring const. x10^7 Nm/rad	Tensil strength N/mm^2	Section modulus cm^3
I1	DAMPER	0.412	C=392.3	K1=0	0.0	Z1 =0.0
I2	PULLEY	0.331	—	K2=0.907	834	Z2 =209.5
I3	No.1 CRANK	0.331	—	K3=0.505	834	Z3 =209.5
I4	No.2 CRANK	0.217	—	K4=0.505	834	Z4 =209.5
I5	No.3 CRANK	0.331	—	K5=0.505	834	Z5 =209.5
I6	No.4 CRANK	0.331	—	K6=0.505	834	Z6 =209.5
I7	No.5 CRANK	0.217	—	K7=0.505	834	Z7 =209.5
I8	No.6 CRANK	0.331	—	K8=0.876	834	Z8 =209.5
I9	FLYWHEEL 18in	5.93	—			
	14in	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 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
		T.HASHIGUCHI	T.OGURA	K.N.

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

EXHAUST GAS EMISSION DATA OF DIESEL ENGINE FOR GENERATOR
For Reference

MODEL		S6A3-PTA		S12A2-PTA		S12H-PTA		S6R-PTA		S12R-PTA		S12R-PTA2		S12R-PTAA2 (W/FAN)		S16R-PTA		S16R-PTA2		S16R-PTAA2 (W/FAN)		S16R2-PTAW
Prime Rating kW/min^{-1} (without fan)		400/1500	460/1800	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	2167/1500 *1
NOx	PPM	900	890	852	825	935	877	901	940	852	940	950	852	940	779	925	852	950	852	828	754	659
	g/Nm^3	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	3.7	3.4	3.1	3.6
	g/kW・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	7.7	7.1	5.8
CO	PPM	(220)	(210)	(220)	(210)	(310)	(210)	310	210	(310)	(210)	(310)	(210)	(320)	(200)	(310)	(210)	(310)	(210)	(320)	(200)	119
	g/Nm^3	(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)	(0.59)	(0.43)	(0.55)	(0.42)	0.4
	g/kW・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)	(1.2)	(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)	(120)	(110)	(120)	35
	g/Nm^3	(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)	(0.13)	(0.10)	(0.13)	0.19
	g/kW・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)	(0.35)	(0.29)	(0.38)	0.10
CO_2	%	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	6.7	6.5	8.0
	g/kW・h	619	646	619	646	619	625	598	619	619	625	620	613	619	612	619	612	620	613	619	612	0.4
PM	g/Nm^3	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	0.03
	g/kW・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	0.39	0.33	0.31	0.04

Notes
1.Allowance: +25%
2.Condition: 100kPa(750mmHg) barometric pressure, 298K(25℃) ambient temprature and 30% relative humidity.
3.NOx, CO, HC[PPM] : with 13% O_2 Level.
NOx, CO, HC, Particulates[g/Nm^3]: with 5% O_2 Level.
NOx, CO, HC, Particulates[g/PS・h]: with 13% O_2 Level.
CO_2[%]: Calculated Data.
( ): Estimated Data.
4. *1: Standby Rating
5.These data are subject to change without notice.

ITEM NO. T0402-0001E Rev.1 (2/2)

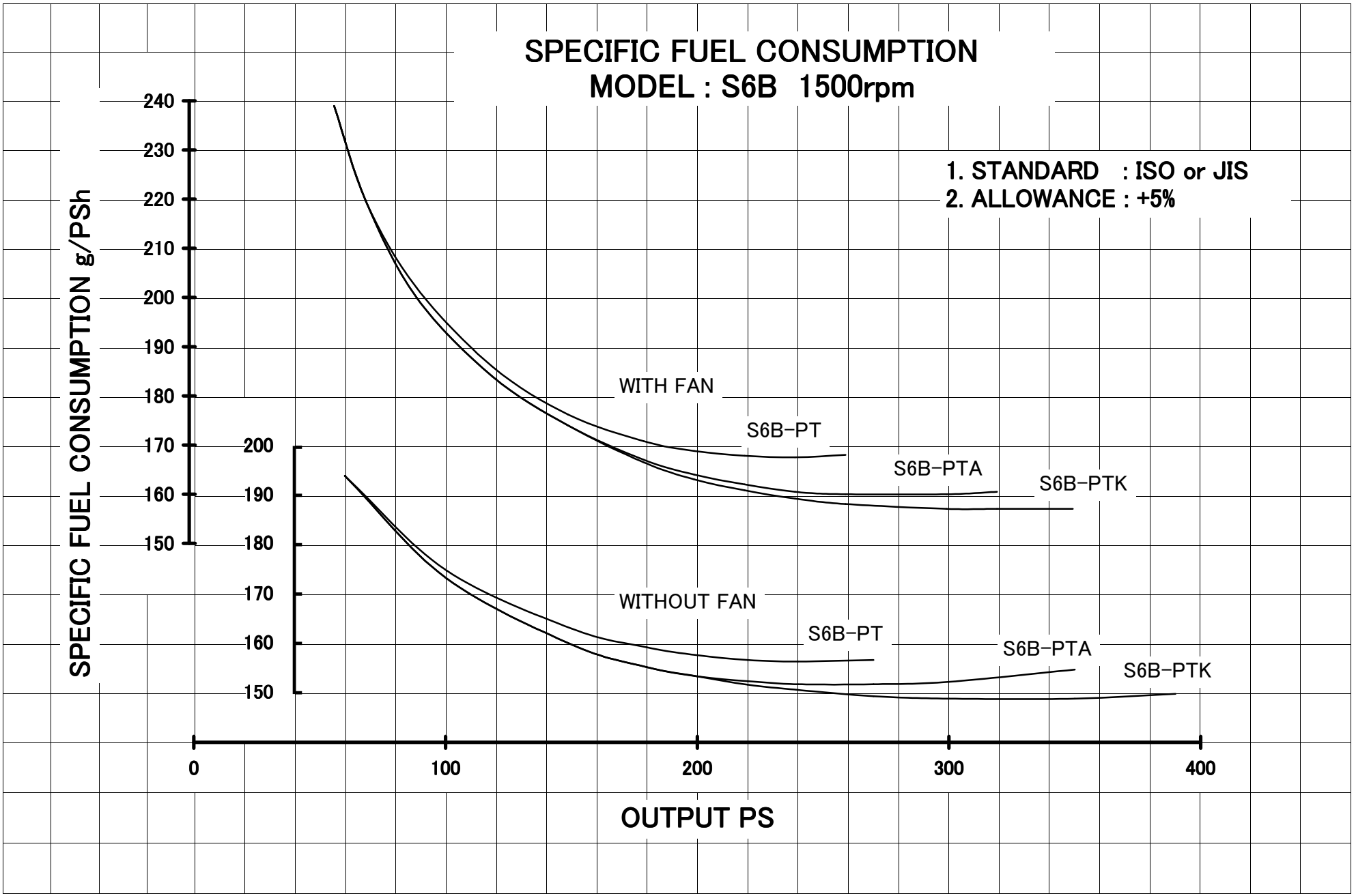
MITSUBISHI DIESEL ENGINE TECHNICAL INFORMATION	ITEM NO.	T33-0100-E
	DATE	Jun. 1999

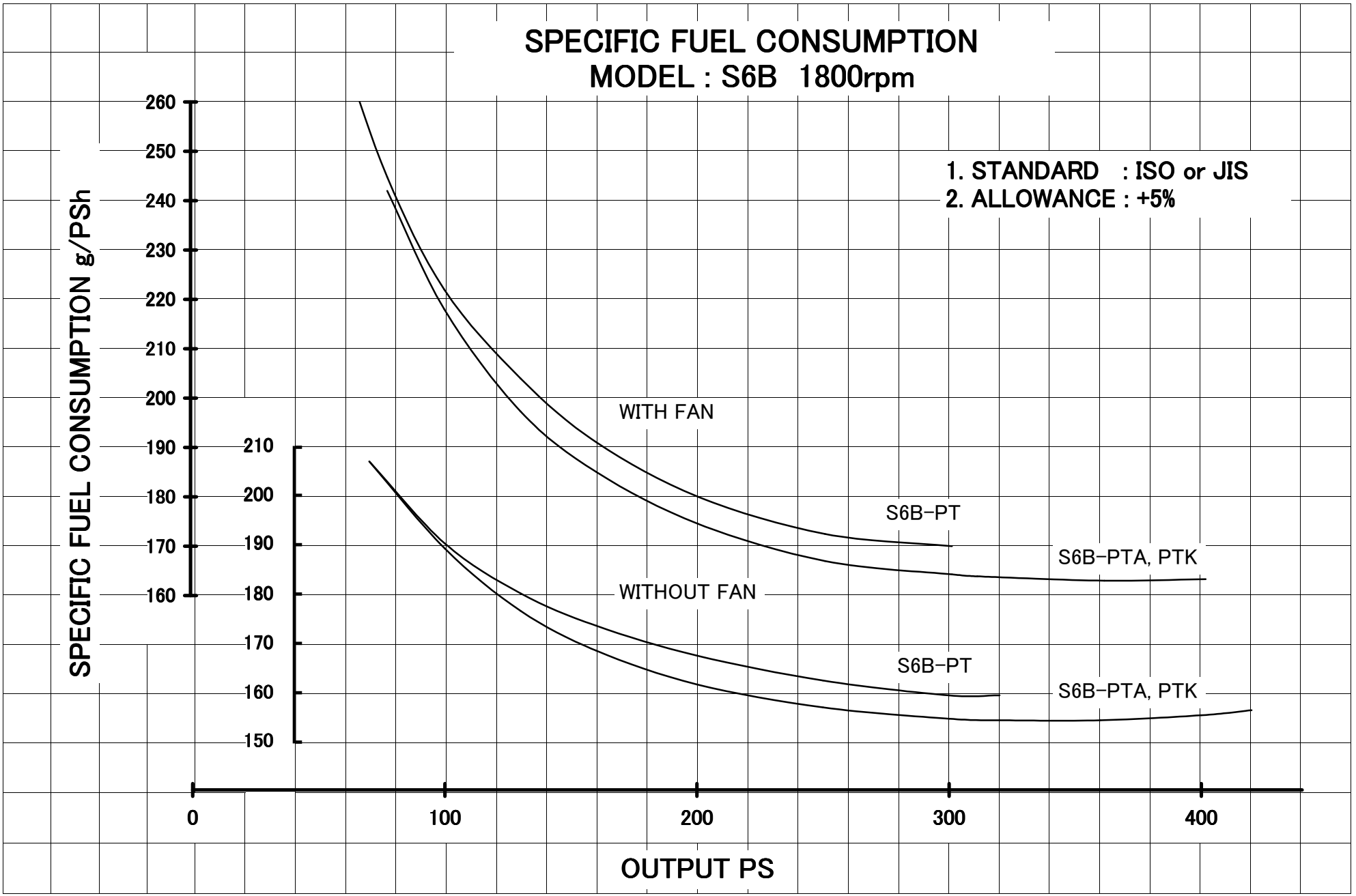
FUEL CONSUMPTION

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

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

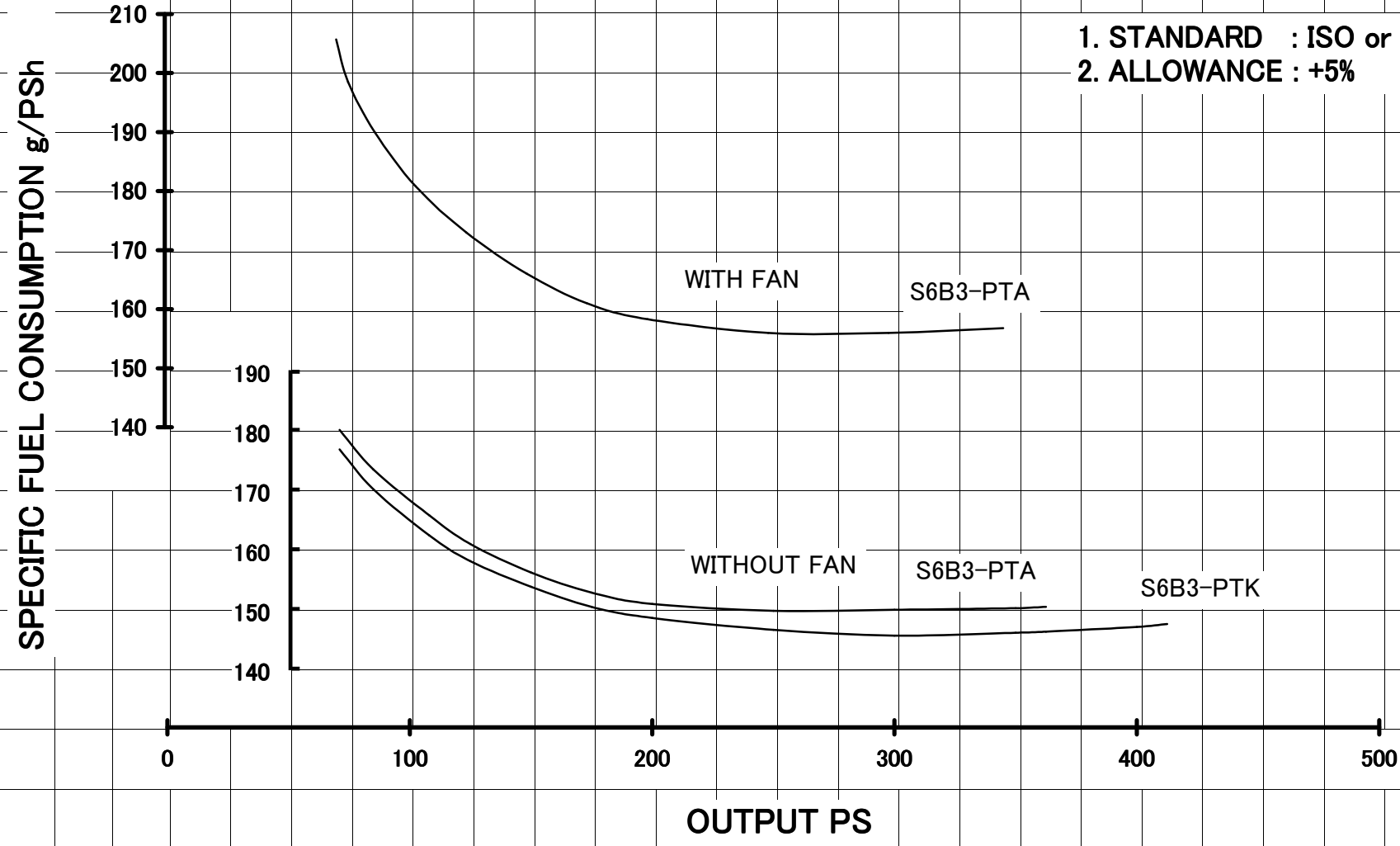
Revision				
	First Edition : Jun. 1999	Engineering Department Large Engine Design Section		
		Approved by	Checked by	Drawn by

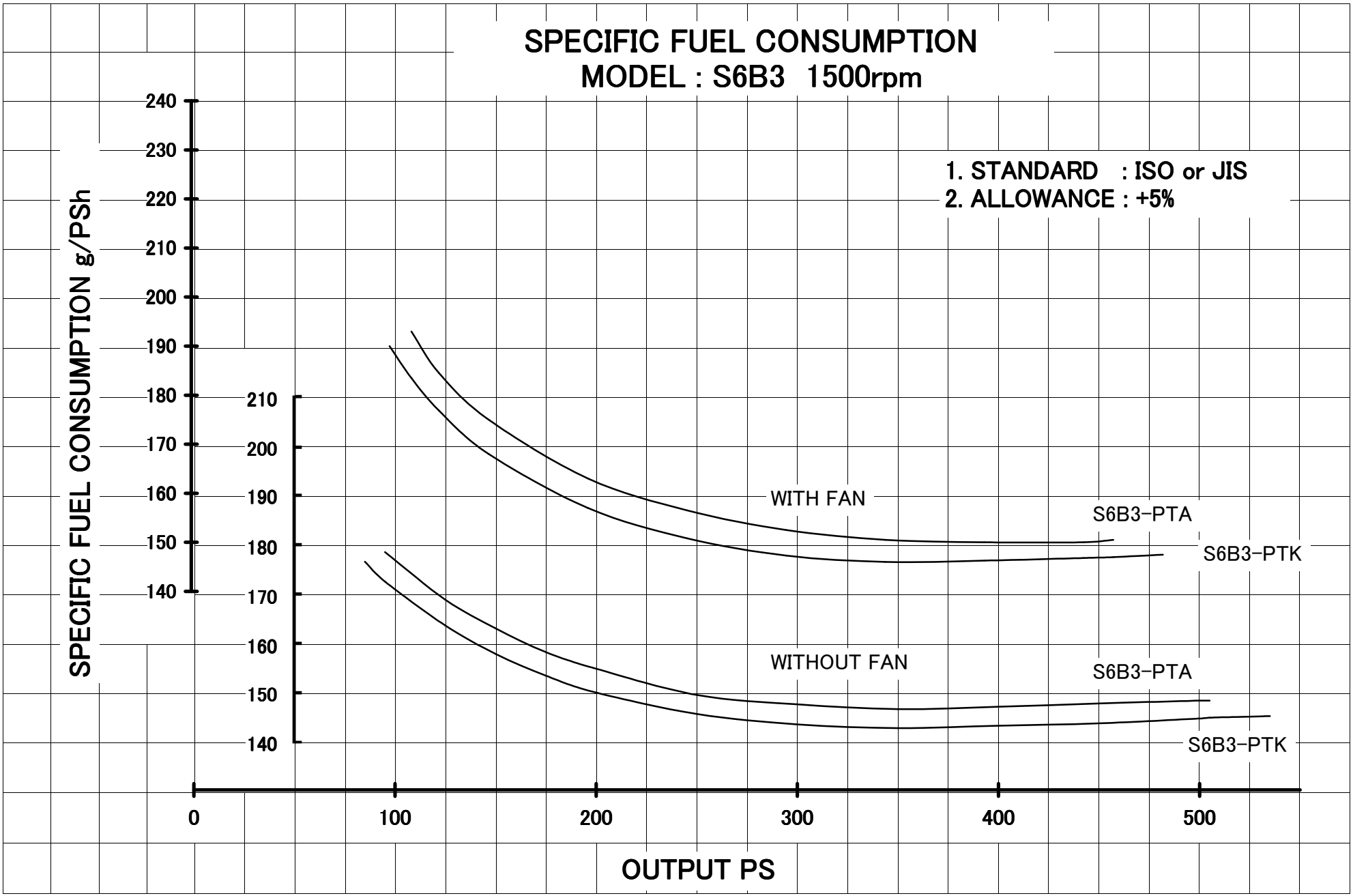

SPECIFIC FUEL CONSUMPTION
MODEL : S6B 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
240
230
220
210
200
190
180
170
160
150
200
190
180
170
160
150
WITH FAN
S6B-PT
S6B-PTA
S6B-PTK
WITHOUT FAN
S6B-PT
S6B-PTA
S6B-PTK
0
100
200
300
400
OUTPUT PS


SPECIFIC FUEL CONSUMPTION
MODEL : S6B 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
260
250
240
230
220
210
200
190
180
170
160
210
200
190
180
170
160
150
WITH FAN
S6B-PT
S6B-PTA, PTK
WITHOUT FAN
S6B-PT
S6B-PTA, PTK
0
100
200
300
400
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S6B3 1200rpm

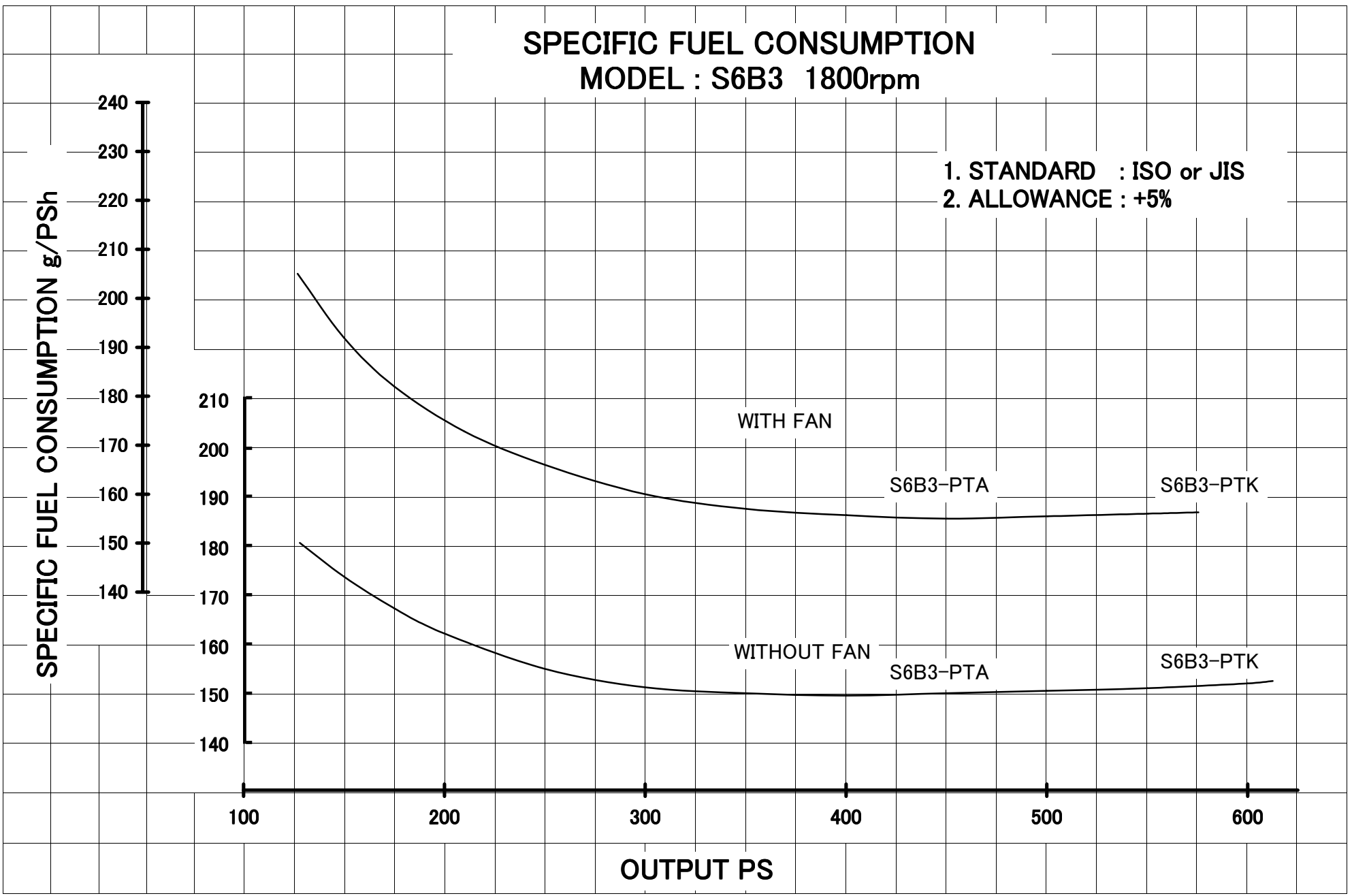
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



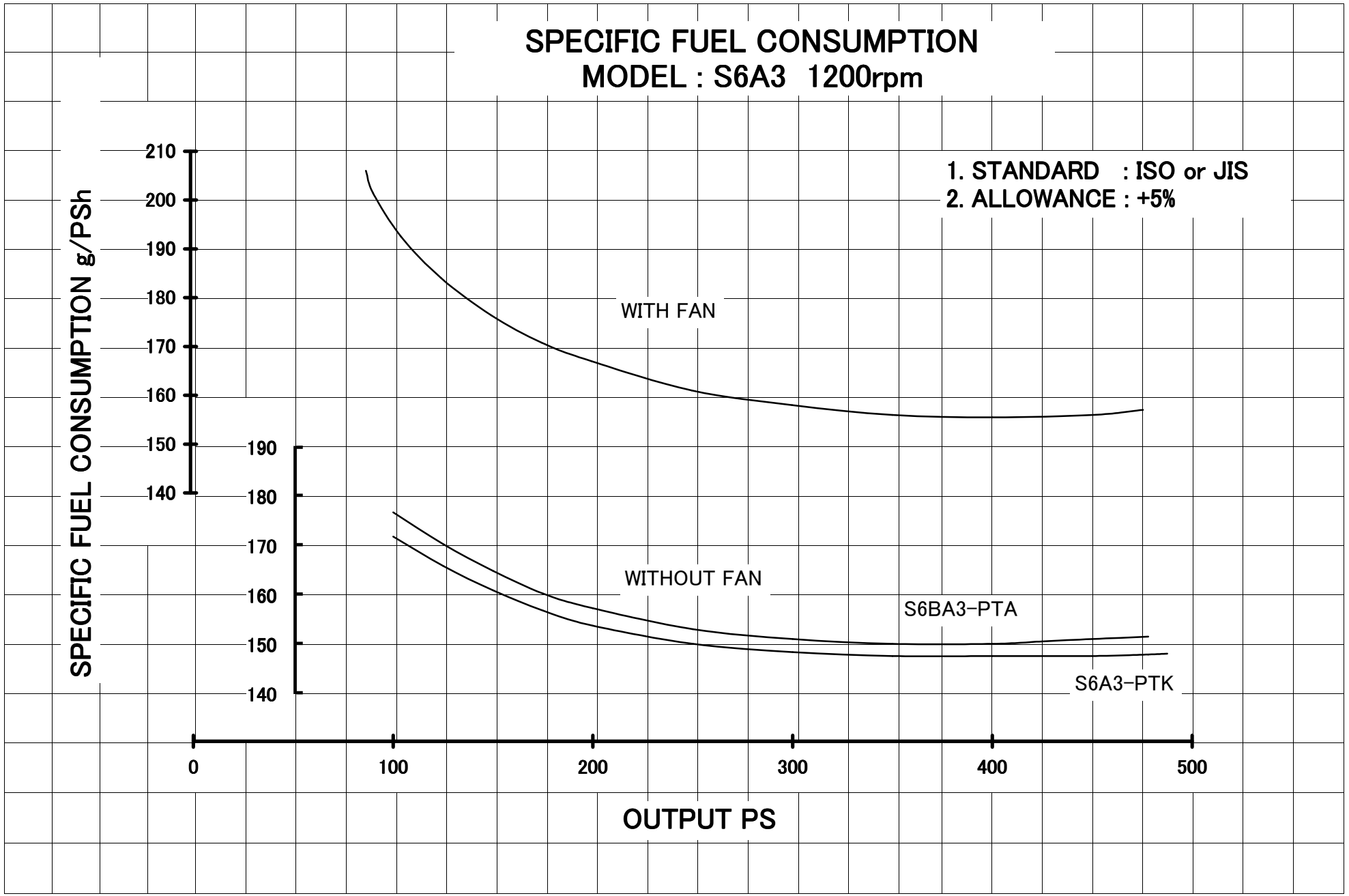

SPECIFIC FUEL CONSUMPTION
MODEL : S6B3 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
240
230
220
210
200
190
180
170
160
150
140
210
200
190
180
170
160
150
140
WITH FAN
S6B3-PTA
S6B3-PTK
WITHOUT FAN
S6B3-PTA
S6B3-PTK
0
100
200
300
400
500
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S6B3 1800rpm

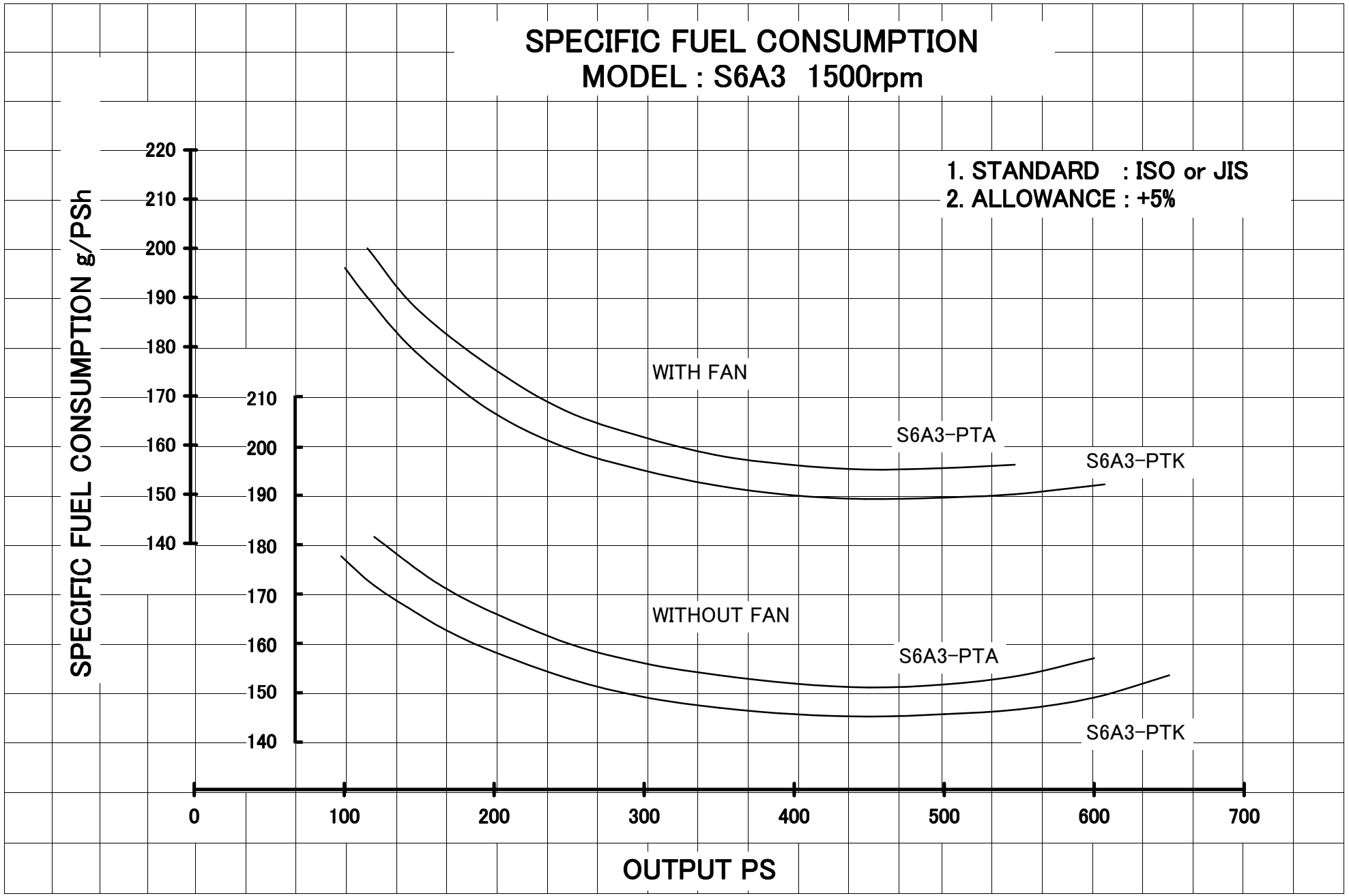
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



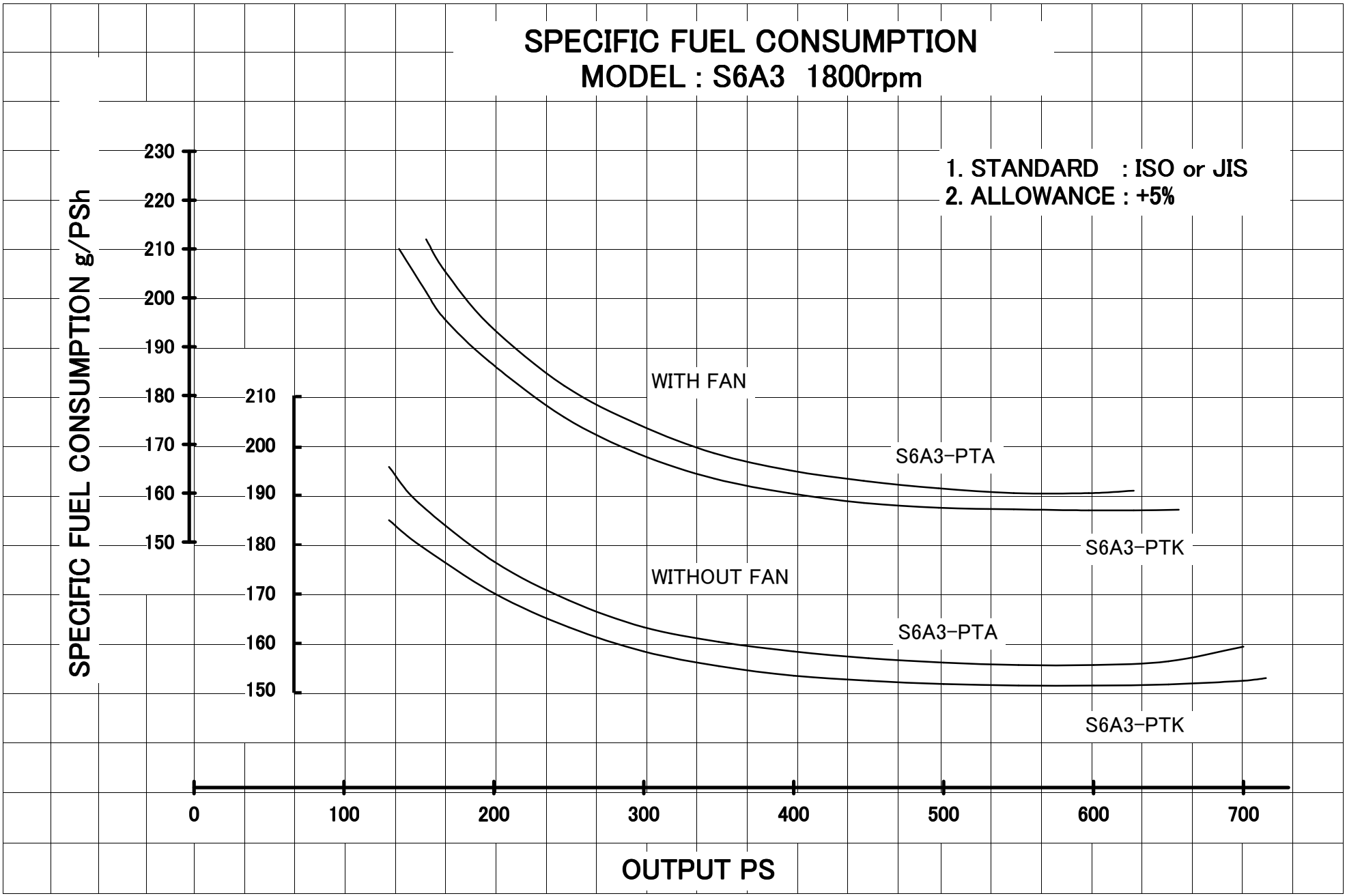
SPECIFIC FUEL CONSUMPTION
MODEL : S6A3 1200rpm



SPECIFIC FUEL CONSUMPTION
MODEL : S6A3 1500rpm

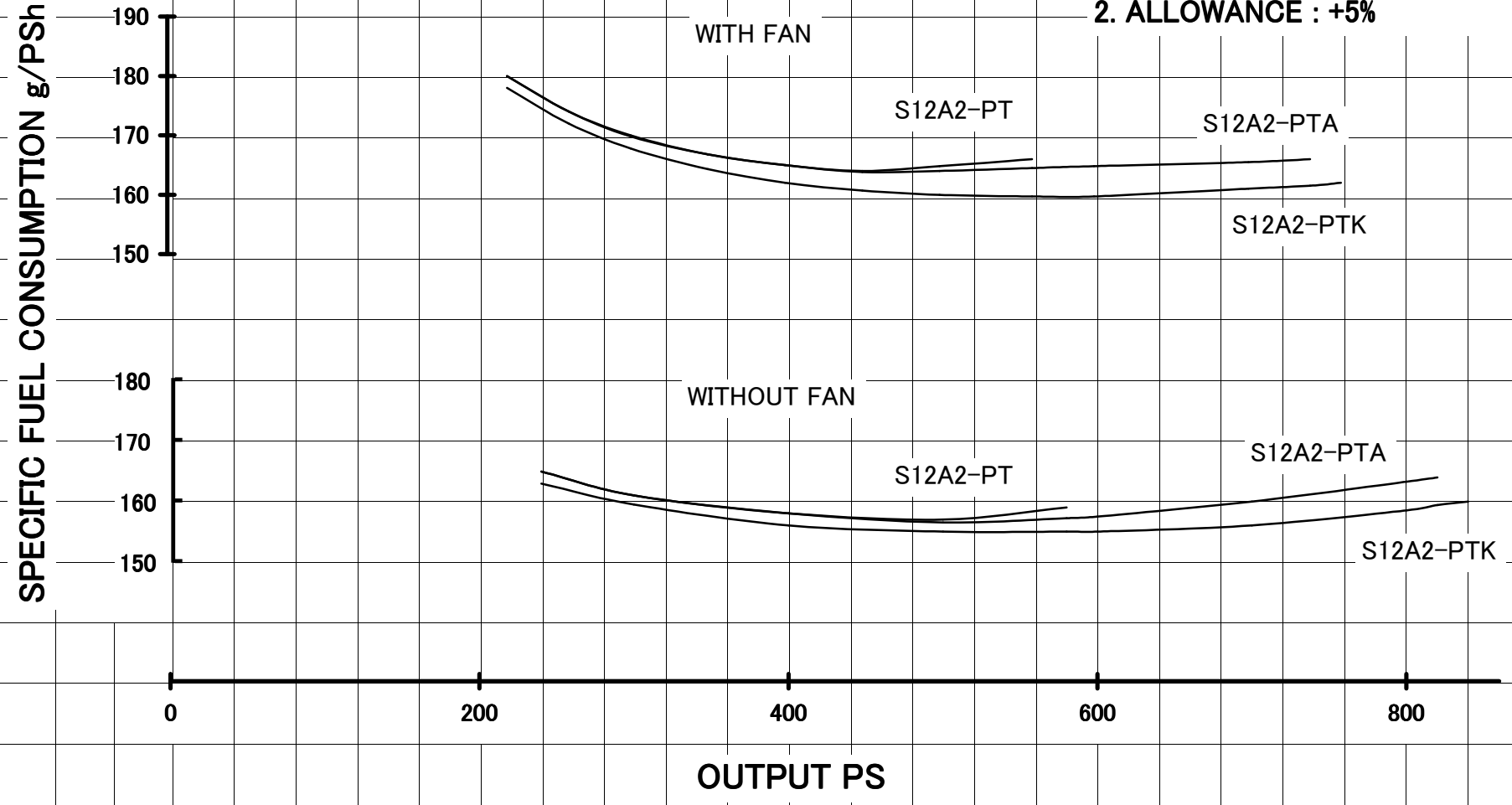


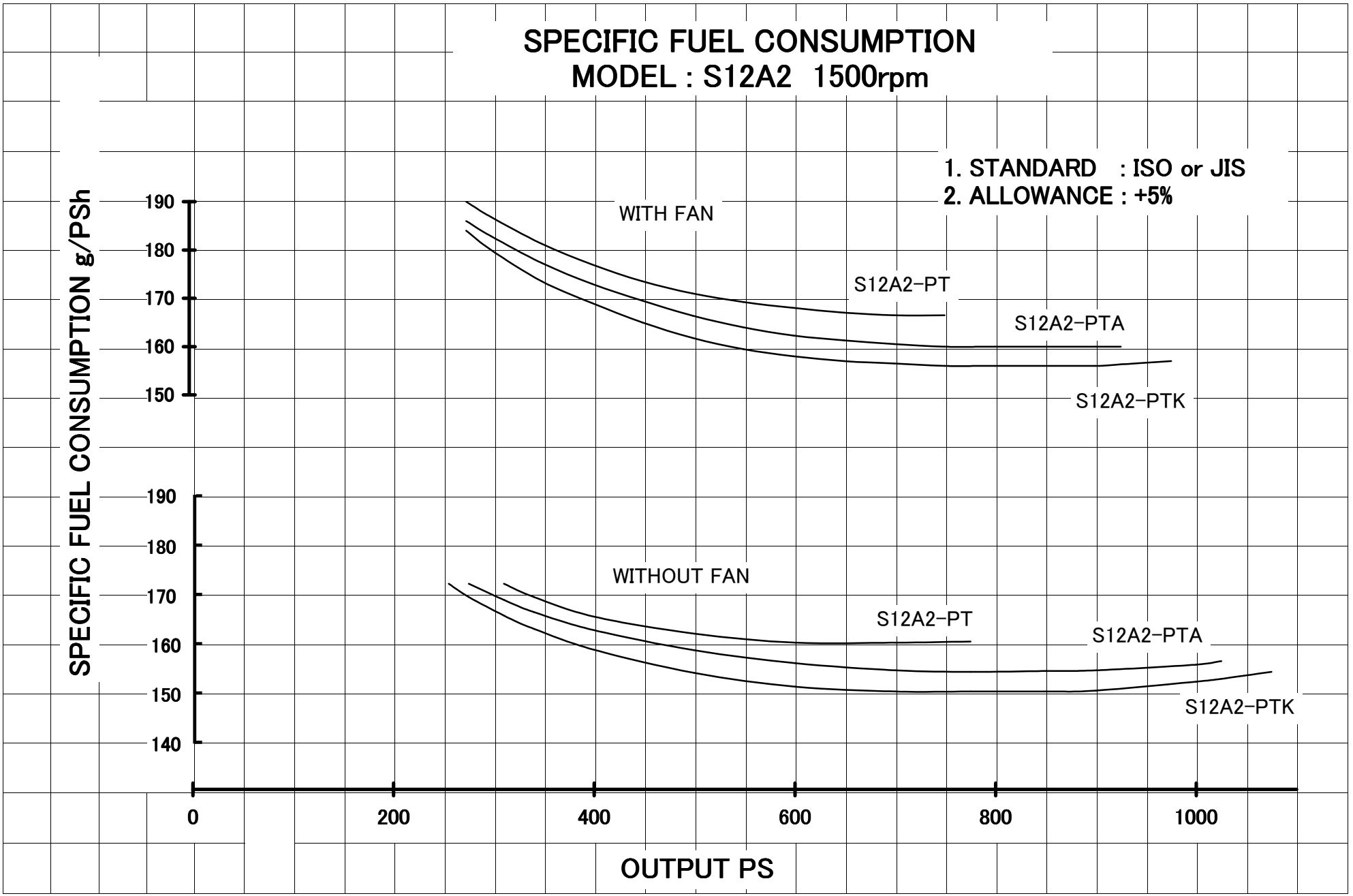
SPECIFIC FUEL CONSUMPTION
MODEL : S6A3 1800rpm

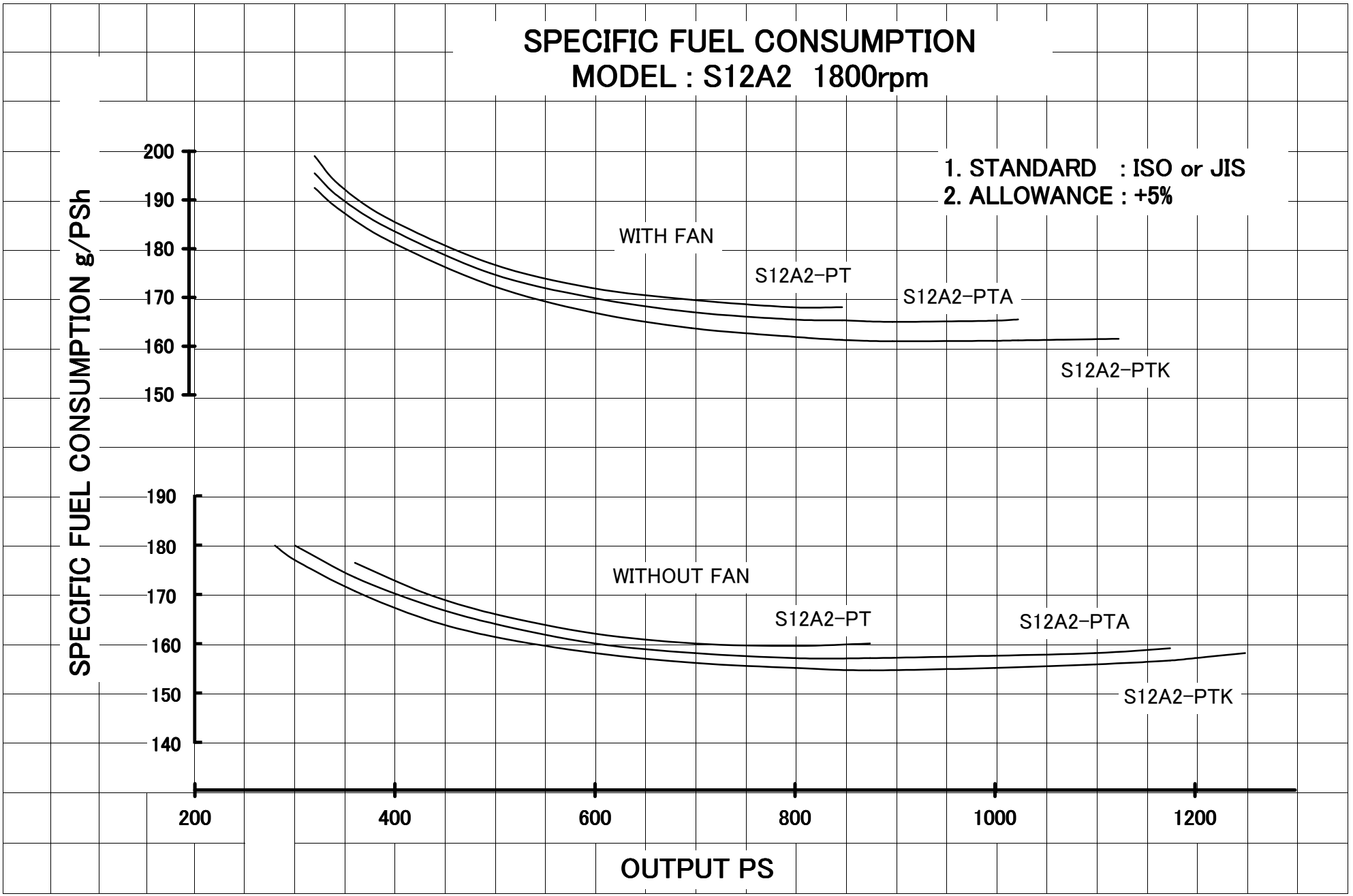


SPECIFIC FUEL CONSUMPTION
MODEL : S12A2 1200rpm

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

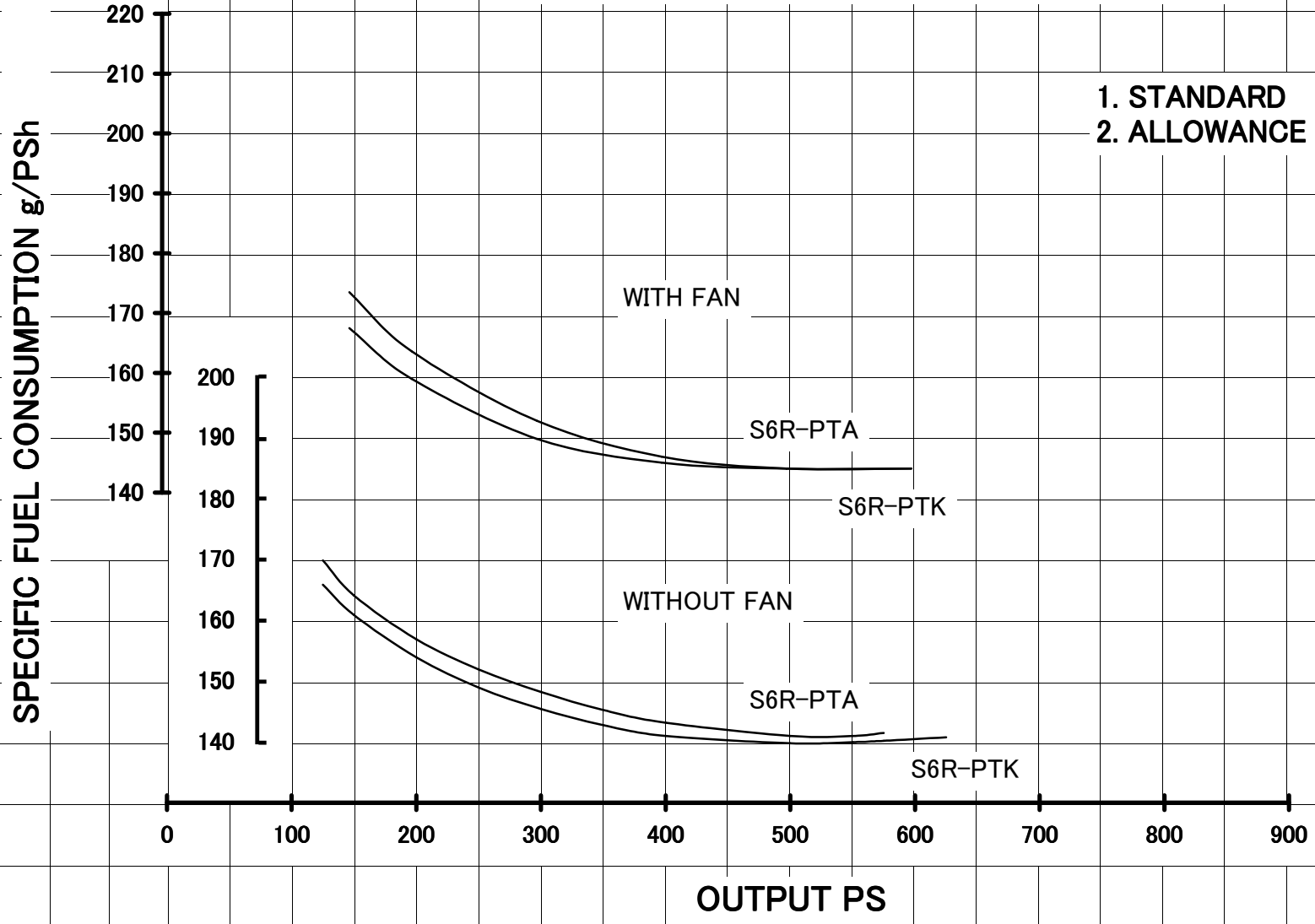



SPECIFIC FUEL CONSUMPTION
MODEL : S12A2 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
S12A2-PT
S12A2-PTA
S12A2-PTK
WITHOUT FAN
S12A2-PT
S12A2-PTA
S12A2-PTK
SPECIFIC FUEL CONSUMPTION g/PSh
190
180
170
160
150
190
180
170
160
150
140
0
200
400
600
800
1000
OUTPUT PS


SPECIFIC FUEL CONSUMPTION
MODEL : S12A2 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
200
190
180
170
160
150
WITH FAN
S12A2-PT
S12A2-PTA
S12A2-PTK
190
180
170
160
150
140
WITHOUT FAN
S12A2-PT
S12A2-PTA
S12A2-PTK
200
400
600
800
1000
1200
OUTPUT PS

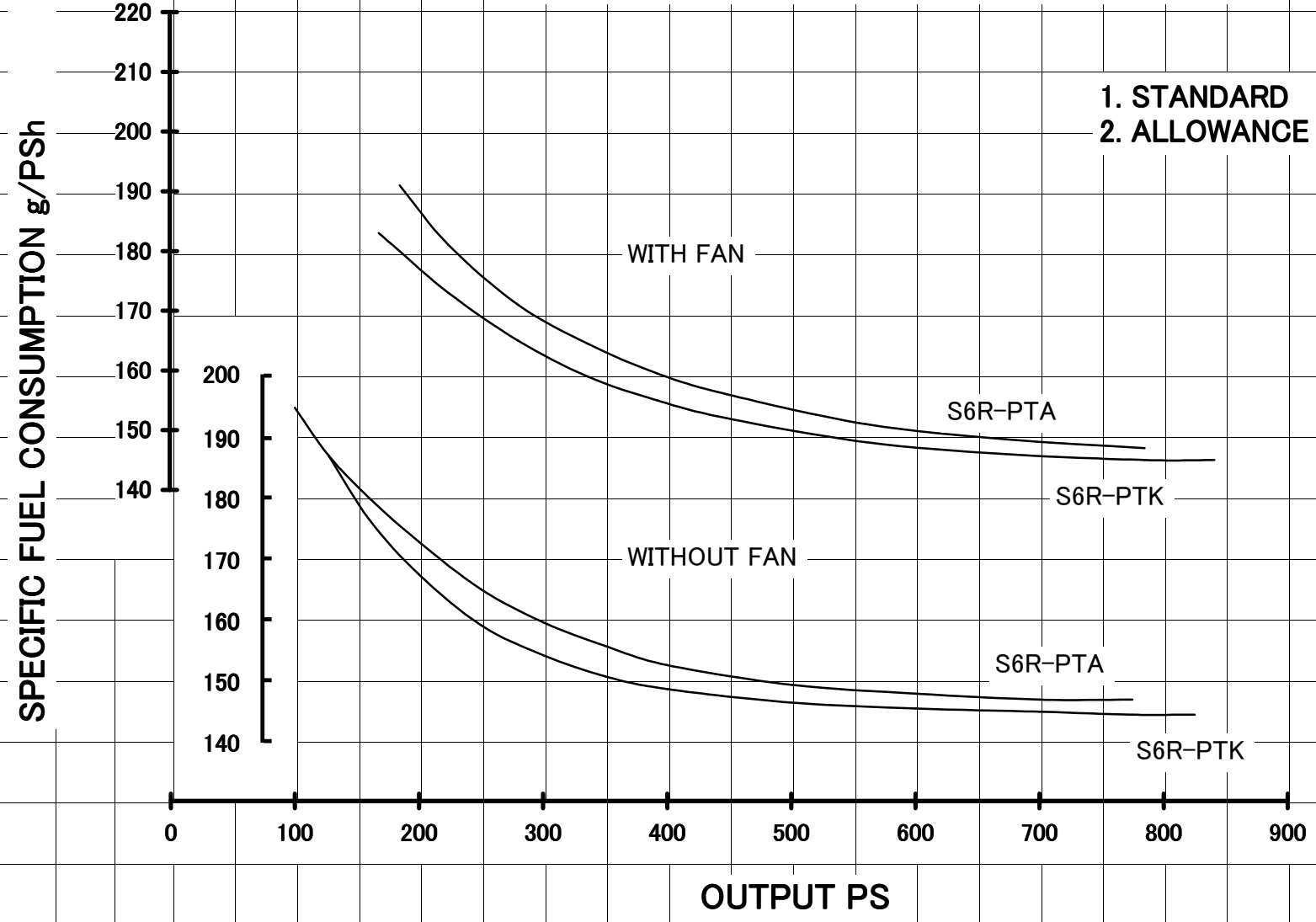
SPECIFIC FUEL CONSUMPTION
MODEL : S6R 1200rpm

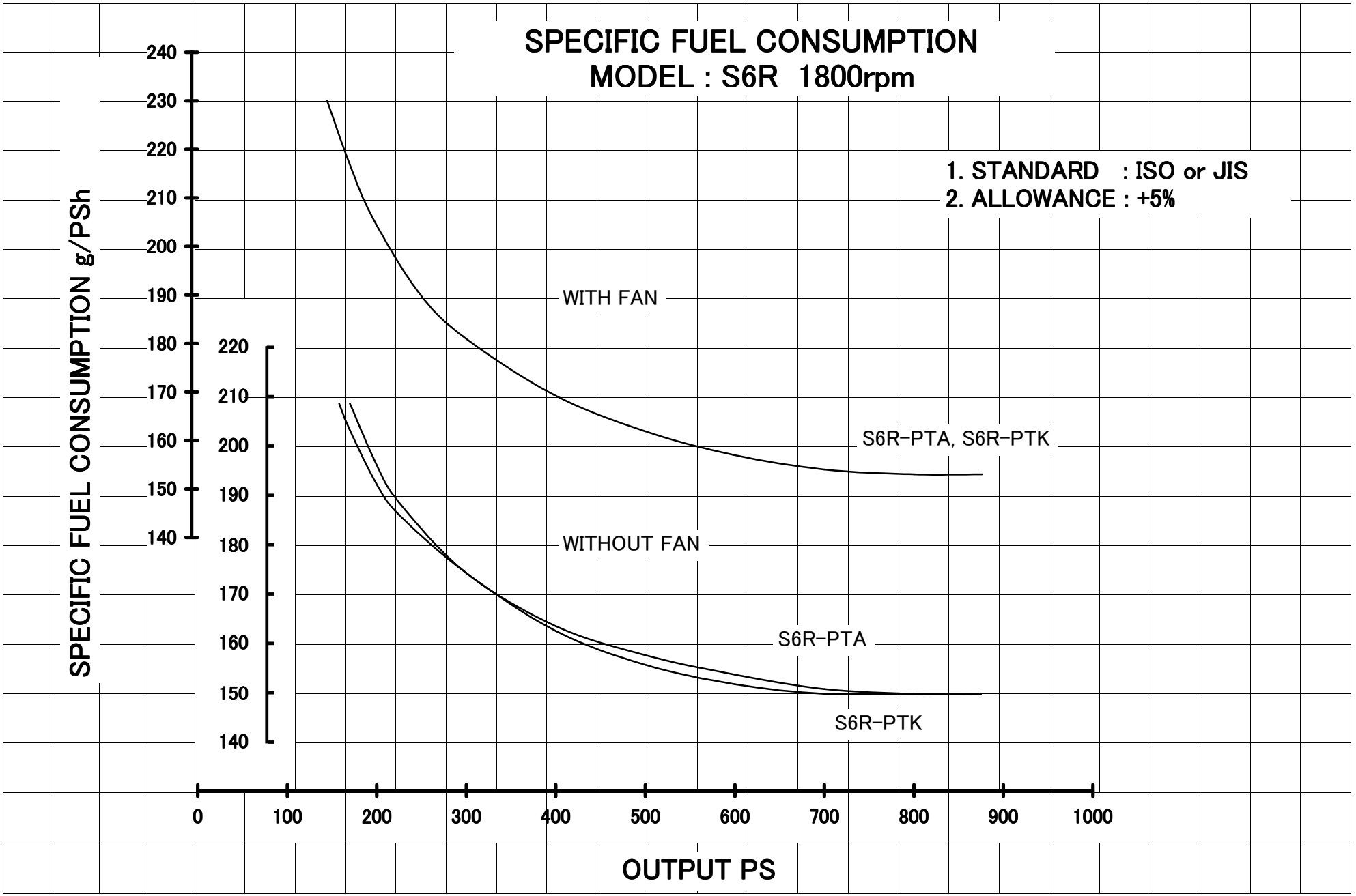
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



SPECIFIC FUEL CONSUMPTION
MODEL : S6R 1500rpm

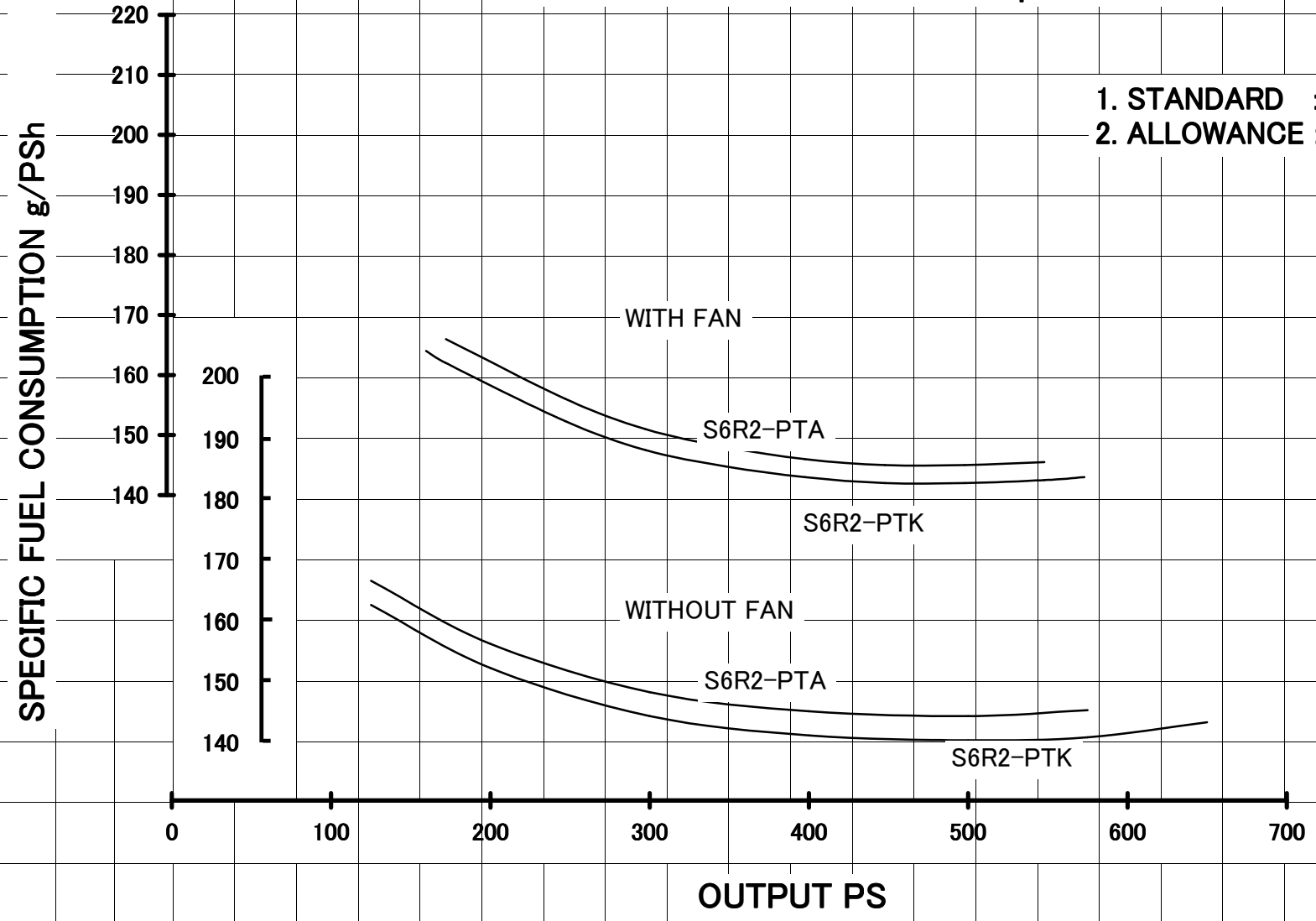
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%




SPECIFIC FUEL CONSUMPTION
MODEL : S6R 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
240
230
220
210
200
190
180
170
160
150
140
WITH FAN
S6R-PTA, S6R-PTK
WITHOUT FAN
S6R-PTA
S6R-PTK
220
210
200
190
180
170
160
150
140
0
100
200
300
400
500
600
700
800
900
1000
OUTPUT PS

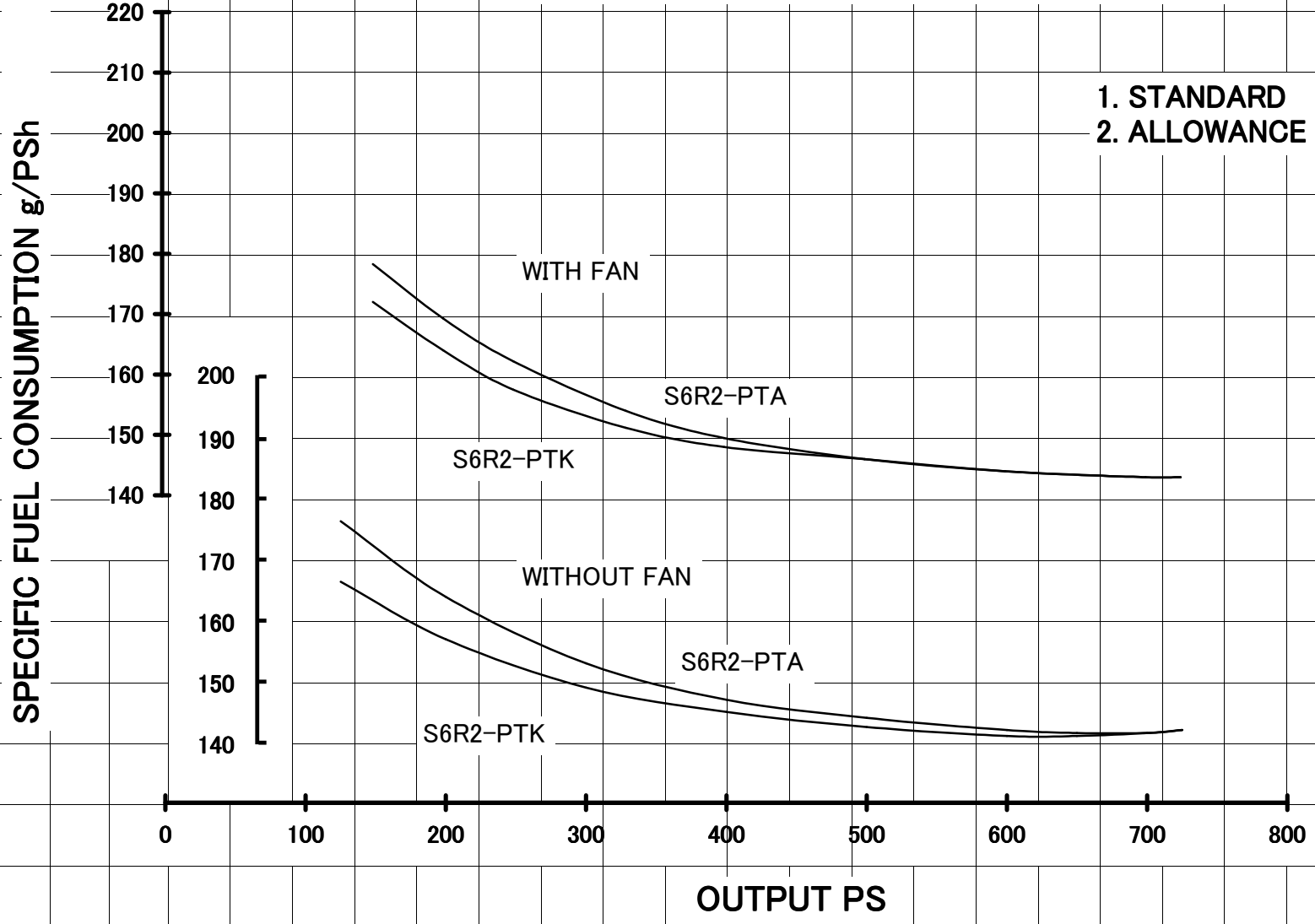
SPECIFIC FUEL CONSUMPTION
MODEL : S6R2 1000rpm

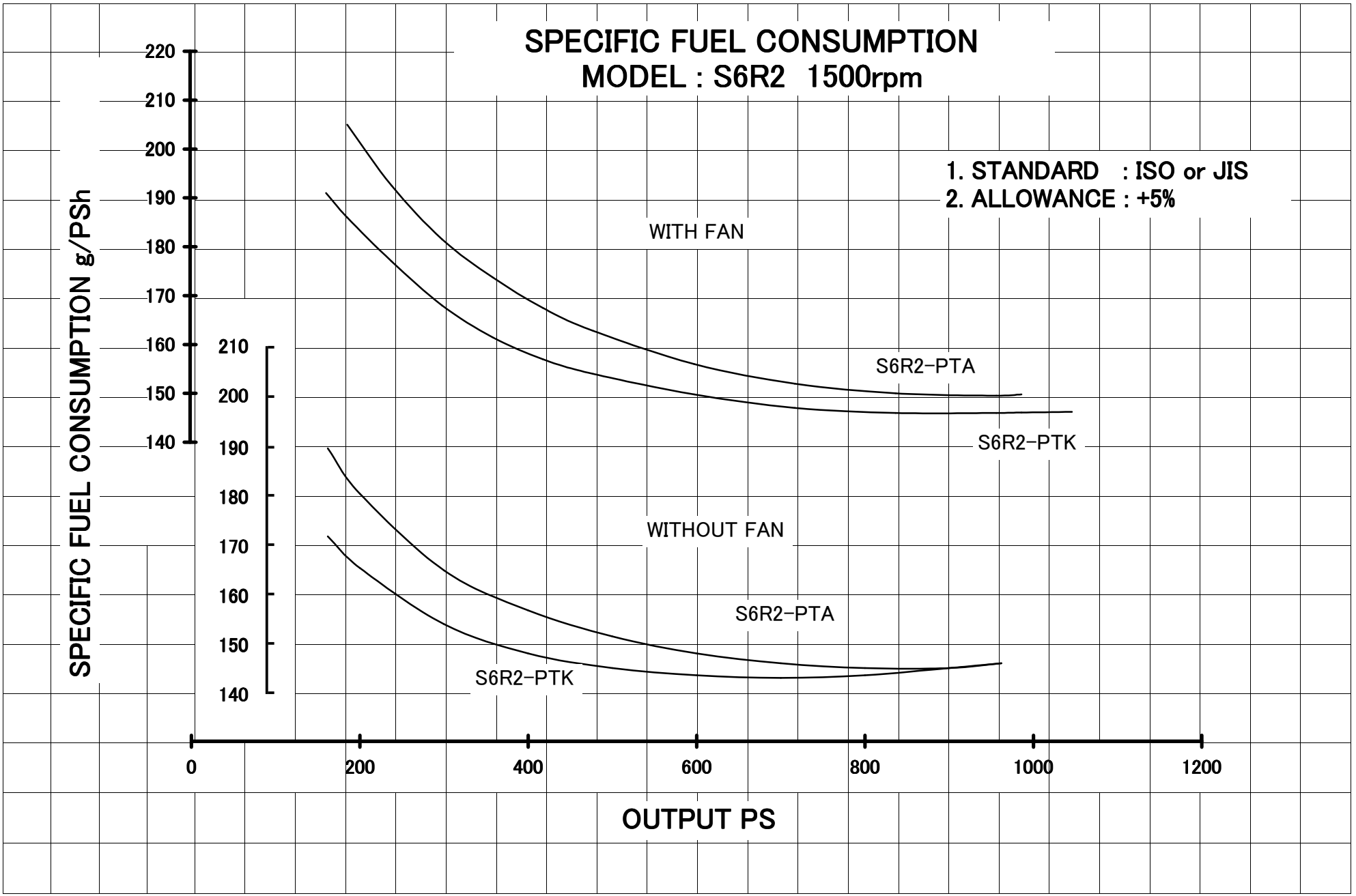
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



SPECIFIC FUEL CONSUMPTION
MODEL : S6R2 1200rpm

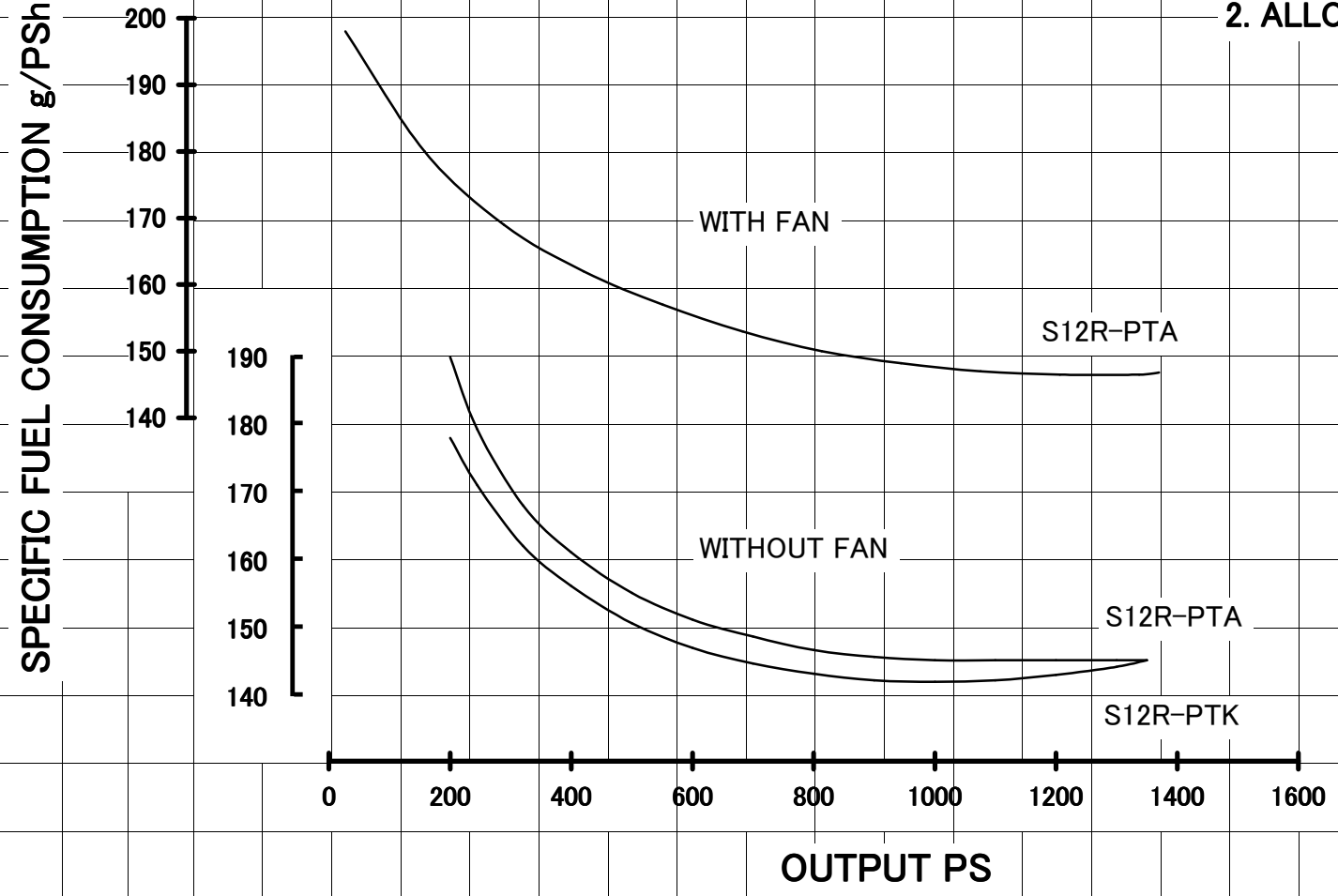
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%

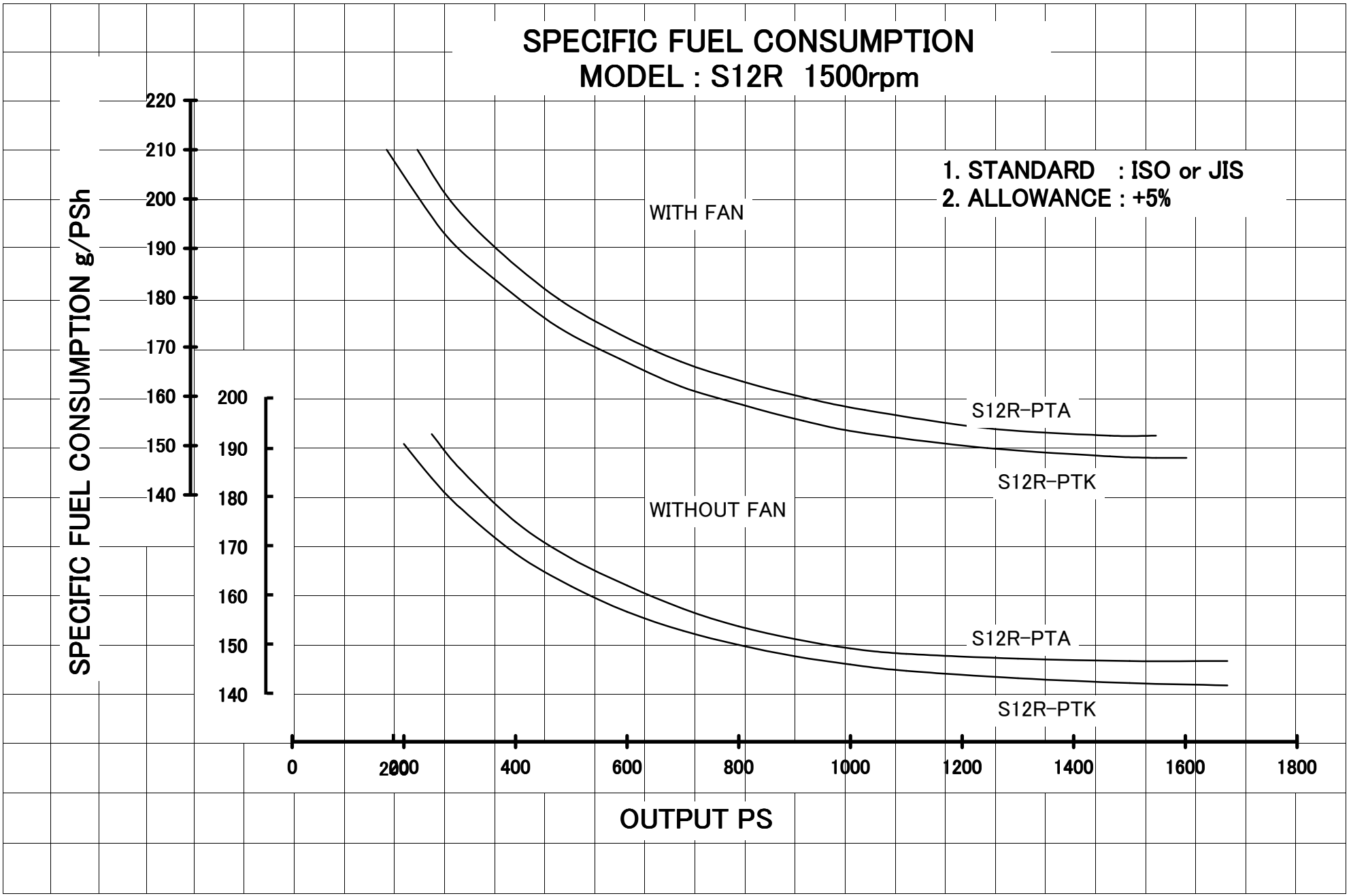


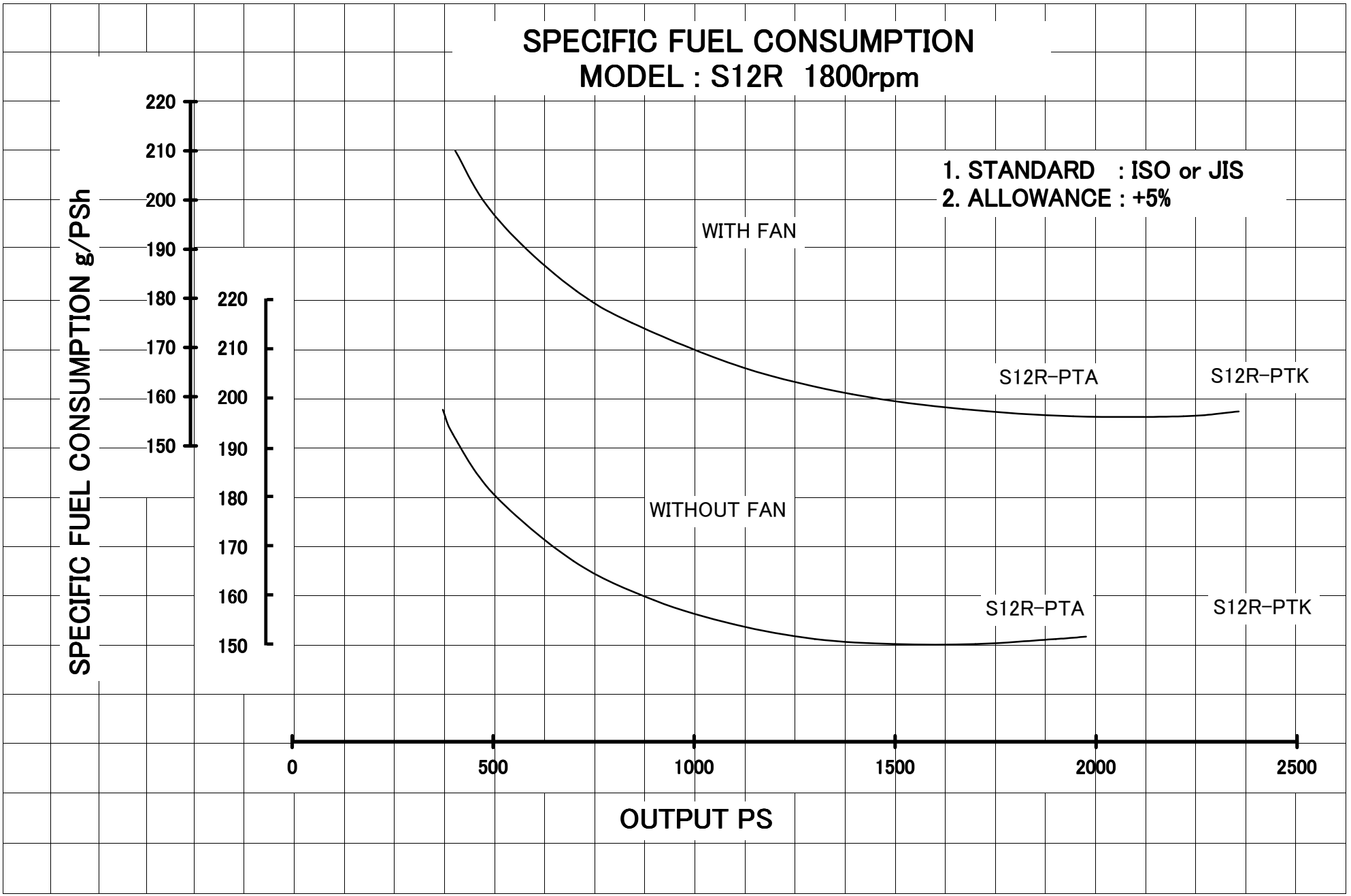

SPECIFIC FUEL CONSUMPTION
MODEL : S6R2 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
S6R2-PTA
S6R2-PTK
WITHOUT FAN
S6R2-PTA
S6R2-PTK
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
140
210
200
190
180
170
160
150
140
0
200
400
600
800
1000
1200
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S12R 1200rpm

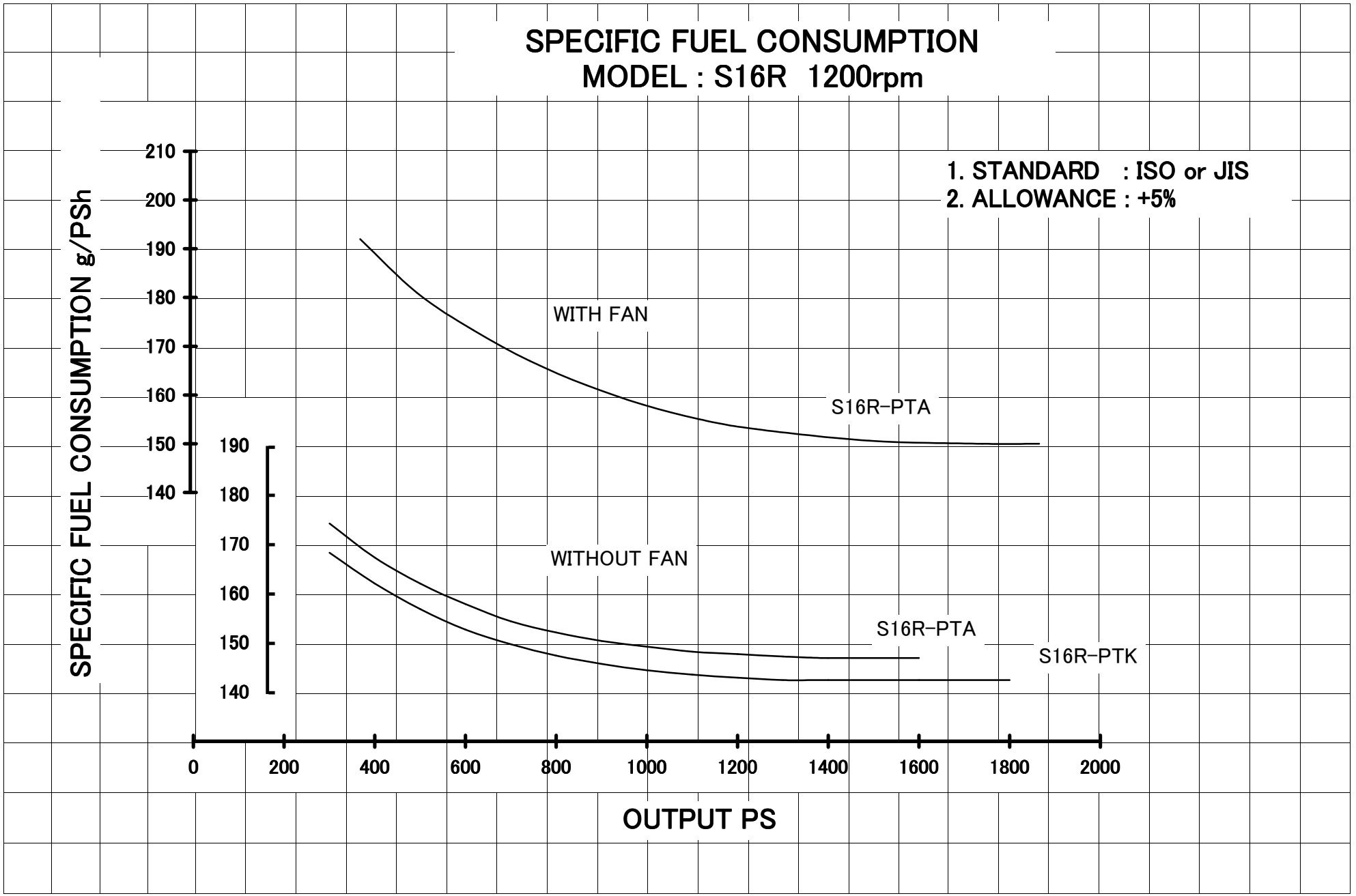
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%

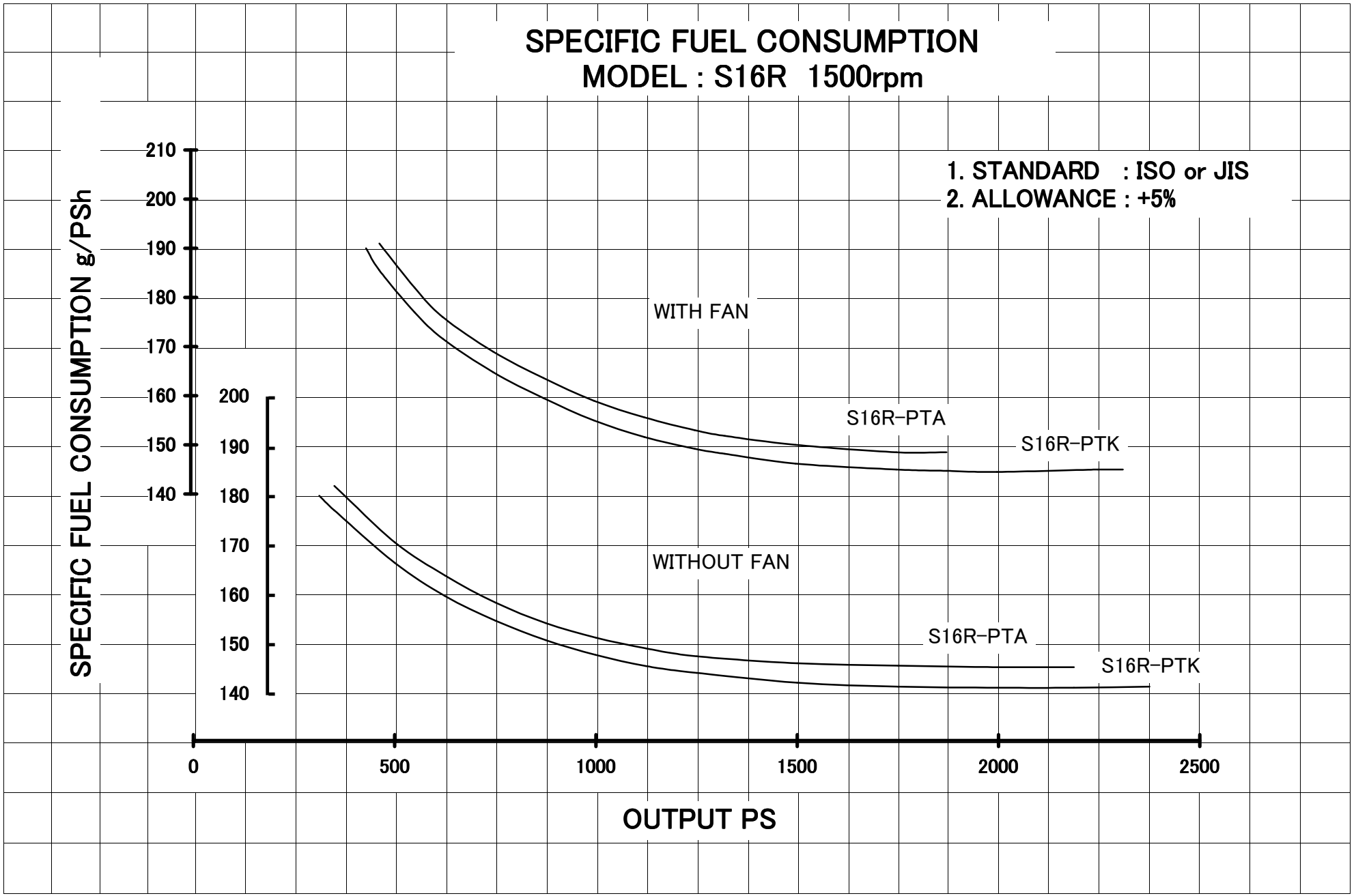


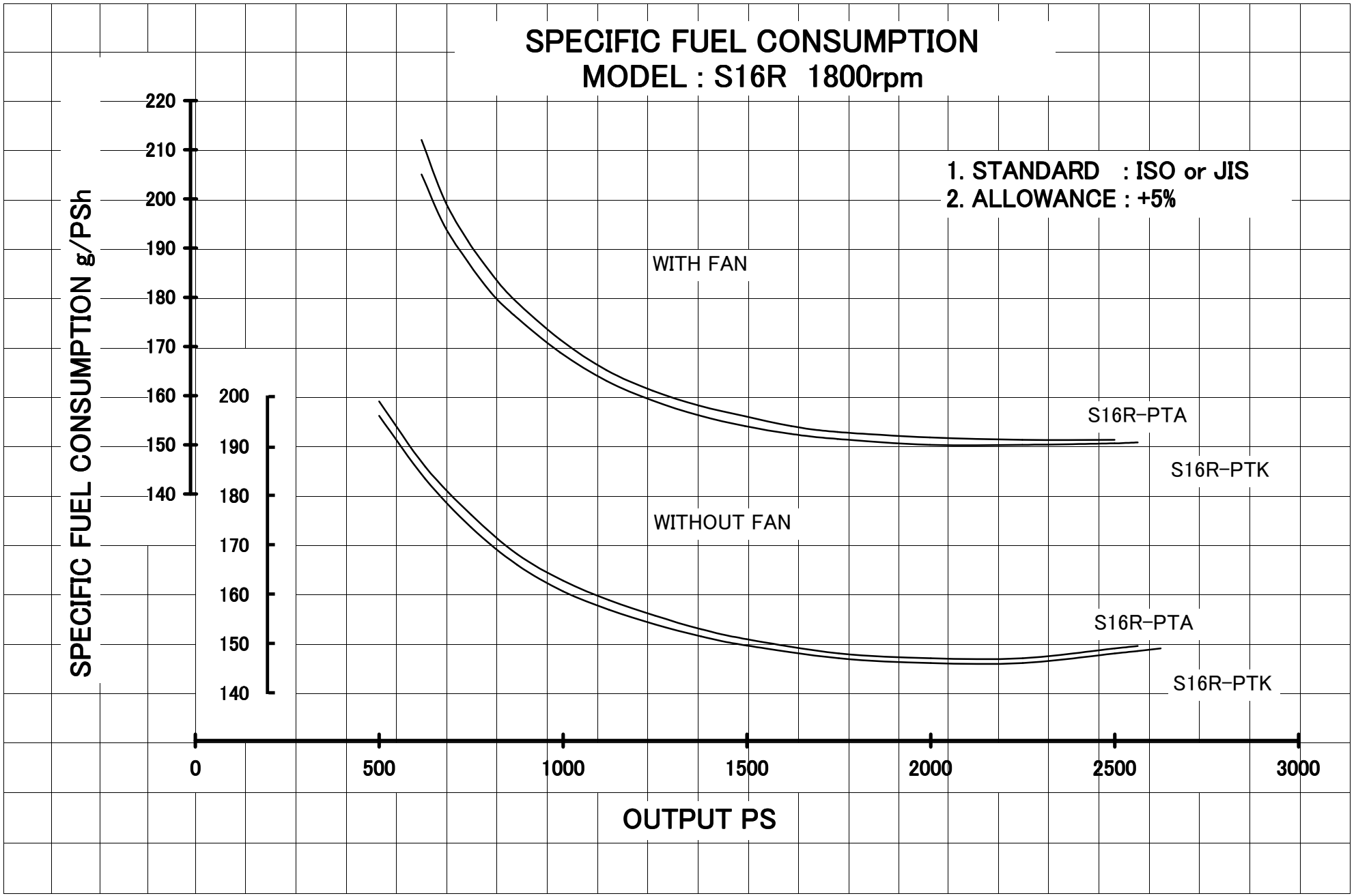

SPECIFIC FUEL CONSUMPTION
MODEL : S12R 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
140
200
190
180
170
160
150
140
WITH FAN
S12R-PTA
S12R-PTK
WITHOUT FAN
S12R-PTA
S12R-PTK
0
200
400
600
800
1000
1200
1400
1600
1800
OUTPUT PS


SPECIFIC FUEL CONSUMPTION
MODEL : S12R 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
S12R-PTA
S12R-PTK
WITHOUT FAN
S12R-PTA
S12R-PTK
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
220
210
200
190
180
170
160
150
0
500
1000
1500
2000
2500
OUTPUT PS

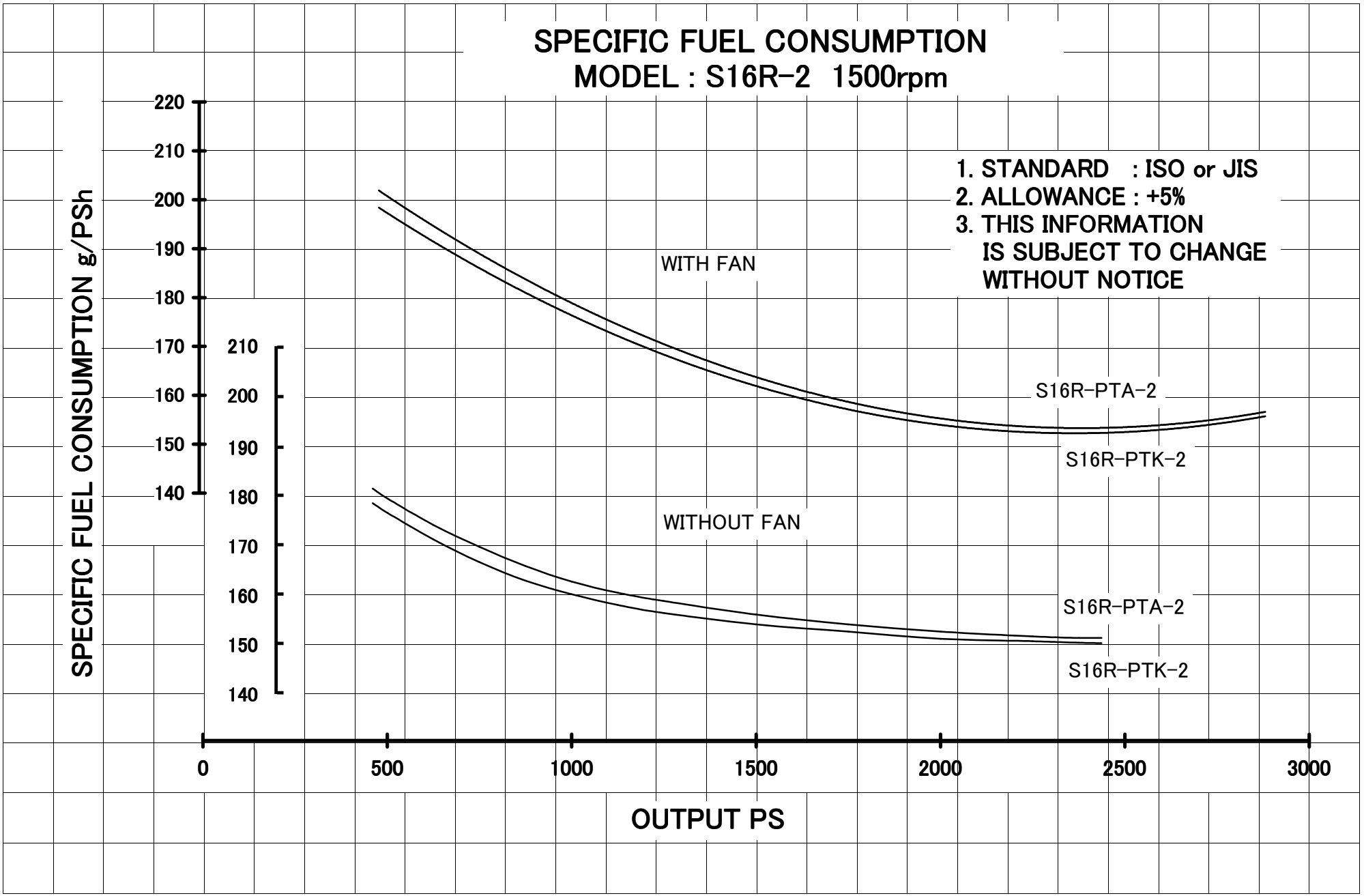
SPECIFIC FUEL CONSUMPTION
MODEL : S16R 1200rpm



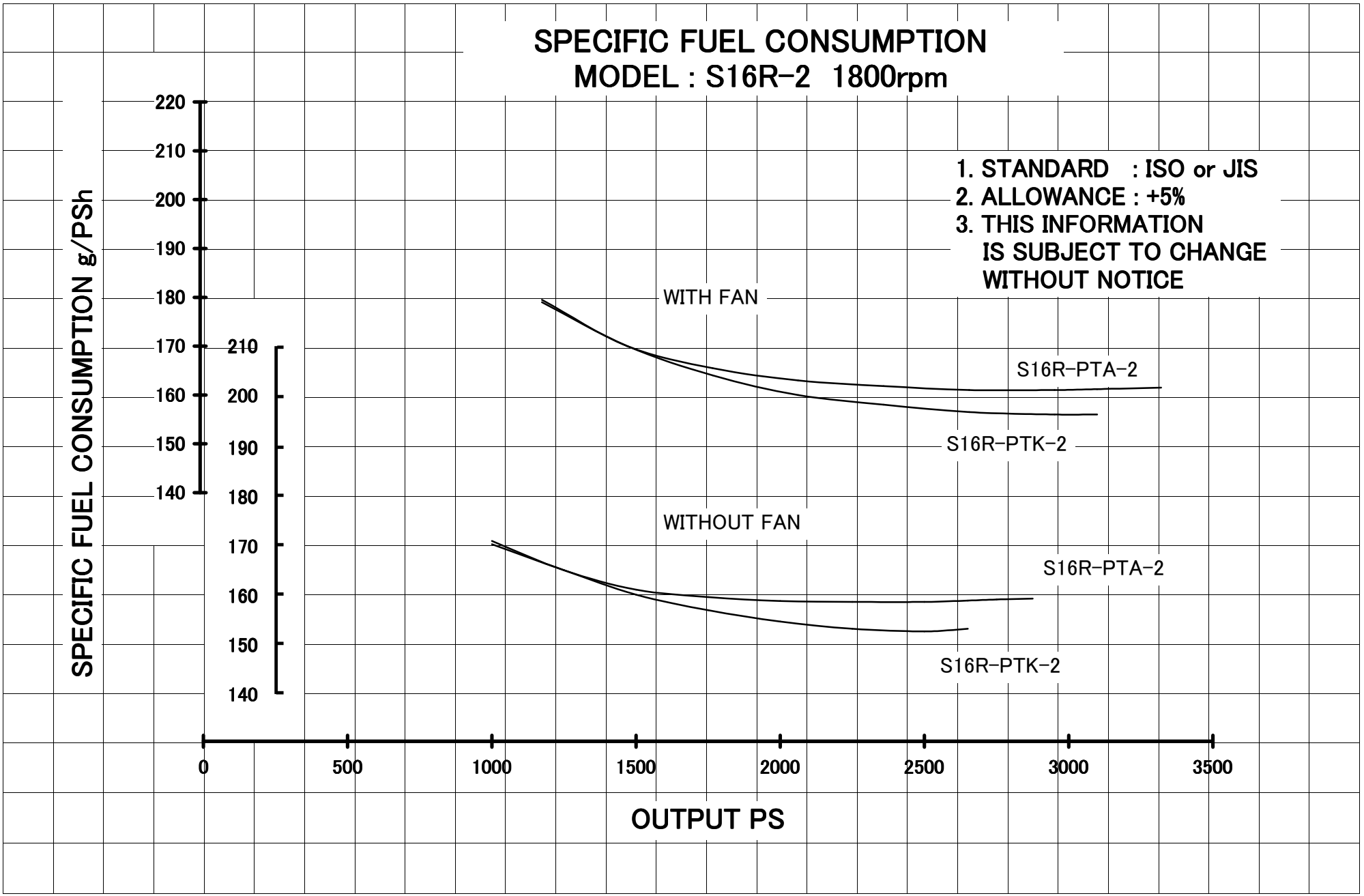

SPECIFIC FUEL CONSUMPTION
MODEL : S16R 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
210
200
190
180
170
160
150
140
WITH FAN
S16R-PTA
S16R-PTK
200
190
180
170
160
150
140
WITHOUT FAN
S16R-PTA
S16R-PTK
0
500
1000
1500
2000
2500
OUTPUT PS

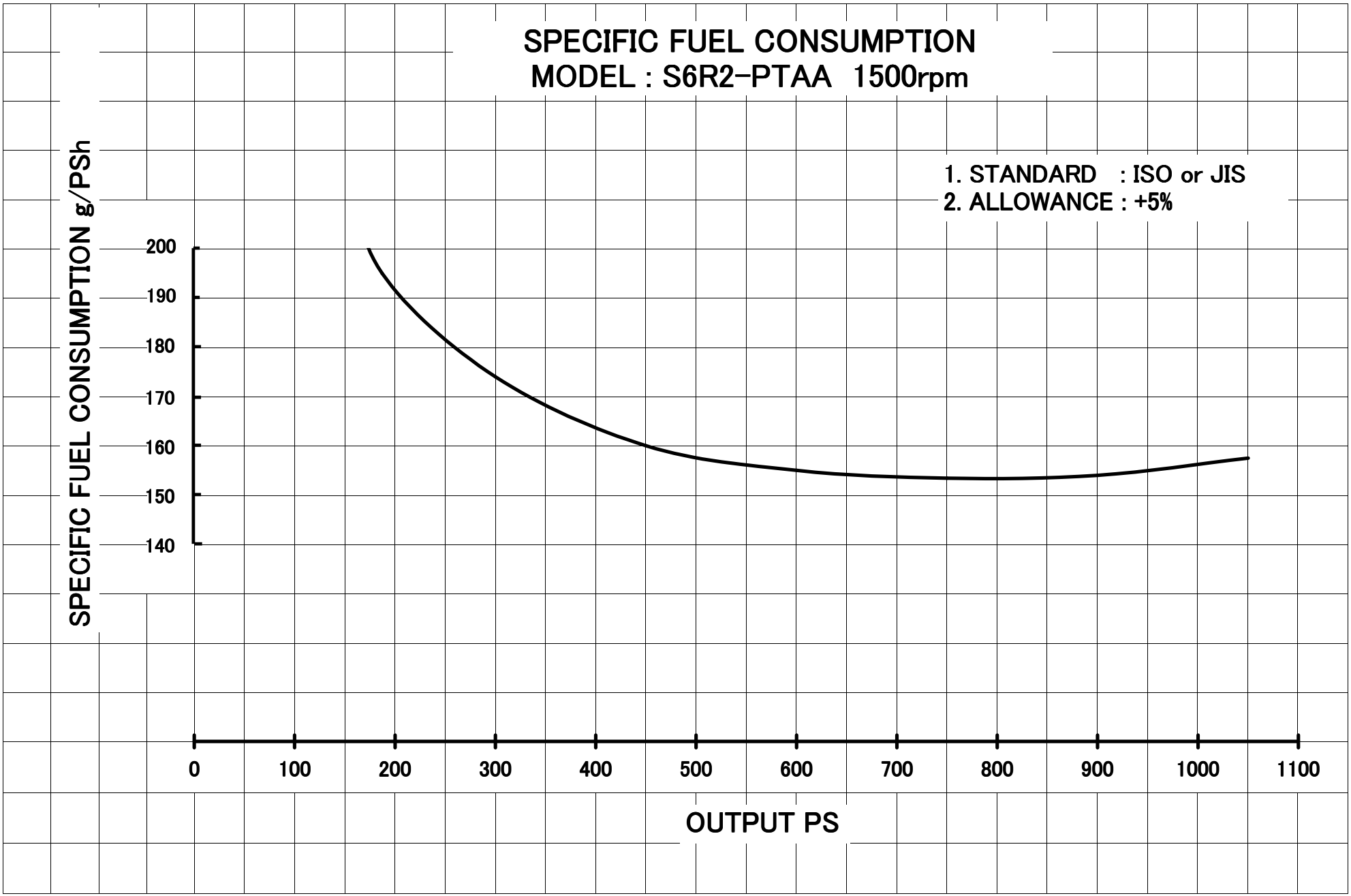

SPECIFIC FUEL CONSUMPTION
MODEL : S16R 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
140
200
190
180
170
160
150
140
WITH FAN
S16R-PTA
S16R-PTK
WITHOUT FAN
S16R-PTA
S16R-PTK
0
500
1000
1500
2000
2500
3000
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S16R-2 1500rpm



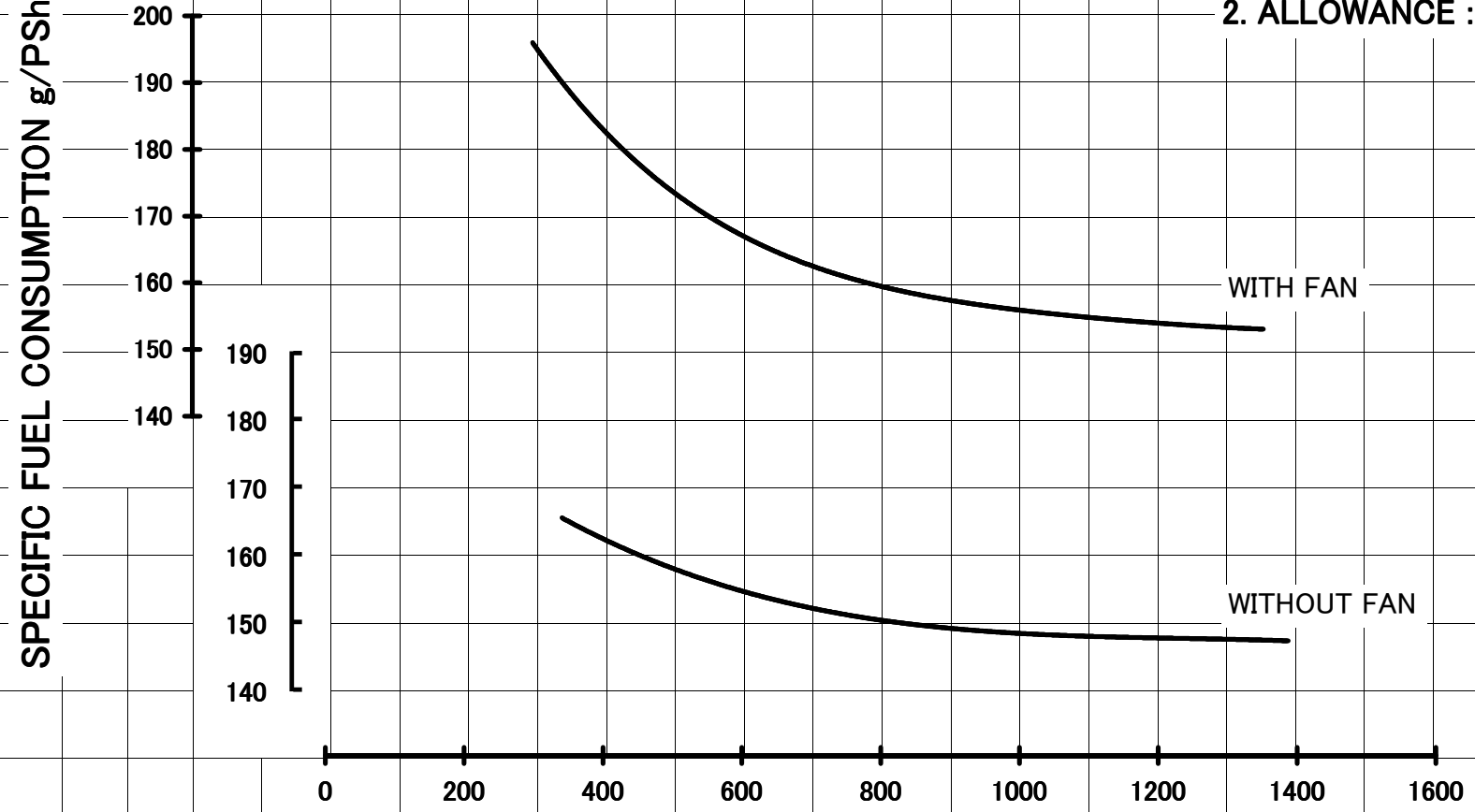
SPECIFIC FUEL CONSUMPTION
MODEL : S16R-2 1800rpm



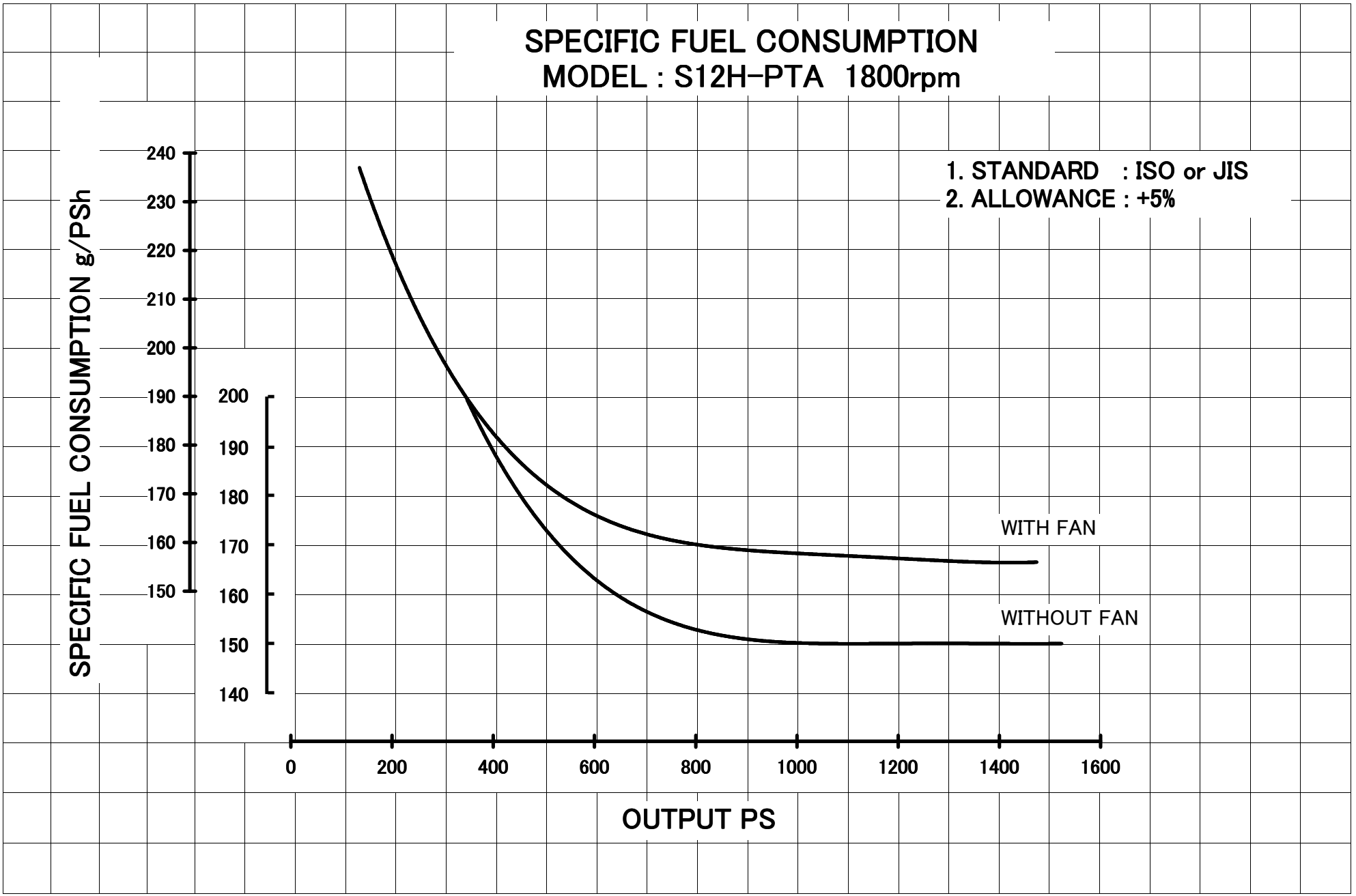

SPECIFIC FUEL CONSUMPTION
MODEL : S6R2-PTAA 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
200
190
180
170
160
150
140
0
100
200
300
400
500
600
700
800
900
1000
1100
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S12H-PTA 1500rpm

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

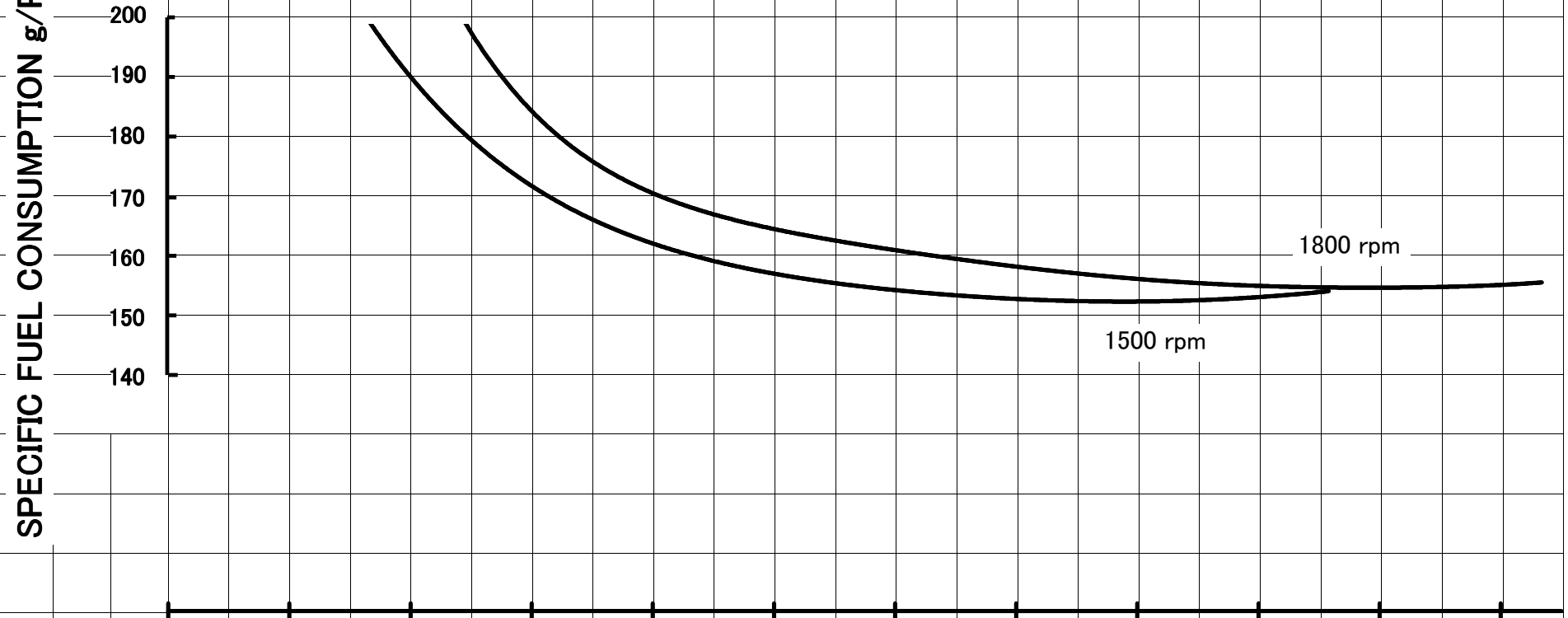


SPECIFIC FUEL CONSUMPTION
MODEL : S12H-PTA 1800rpm



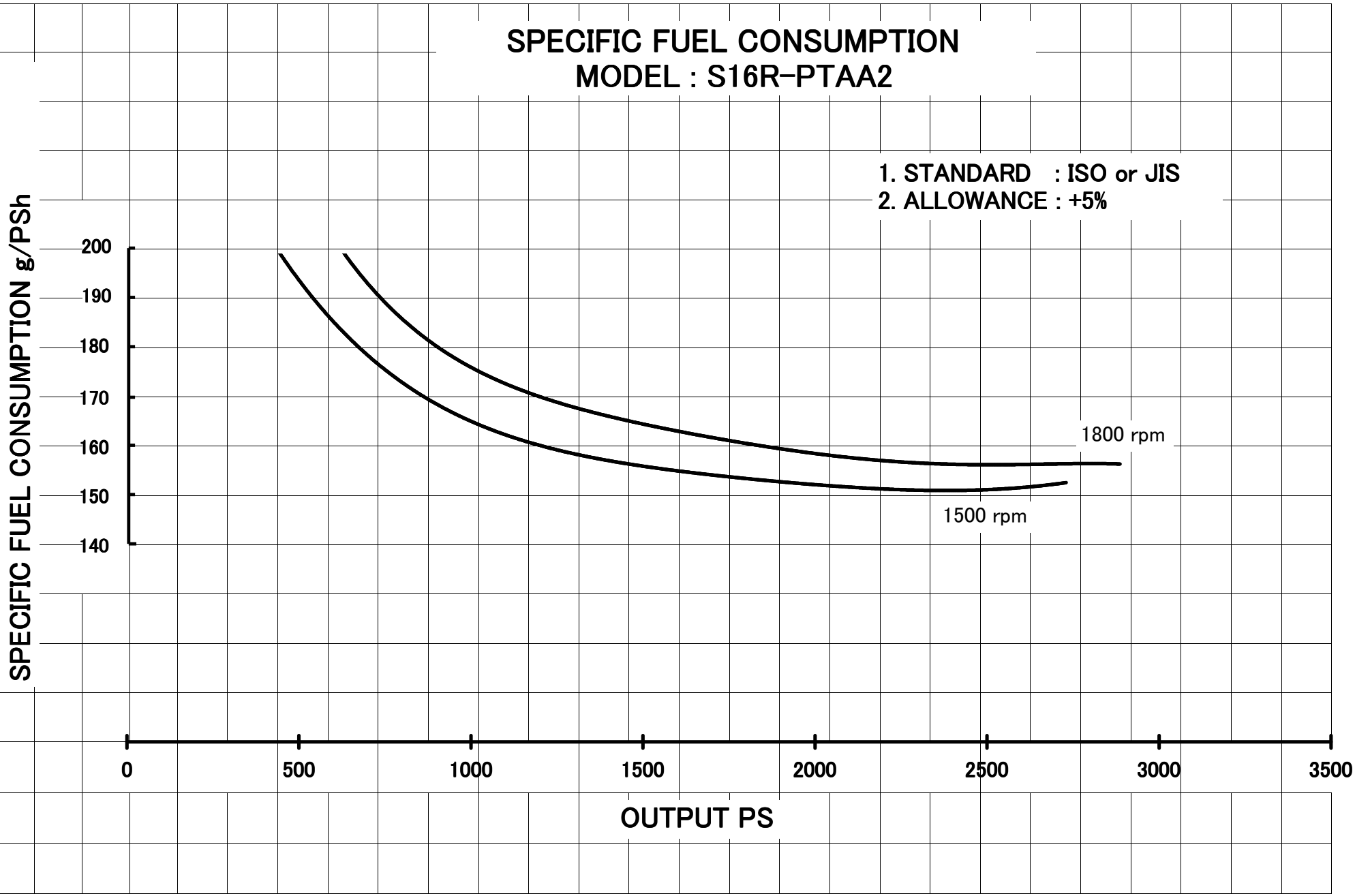
SPECIFIC FUEL CONSUMPTION
MODEL : S12R-PTAA2

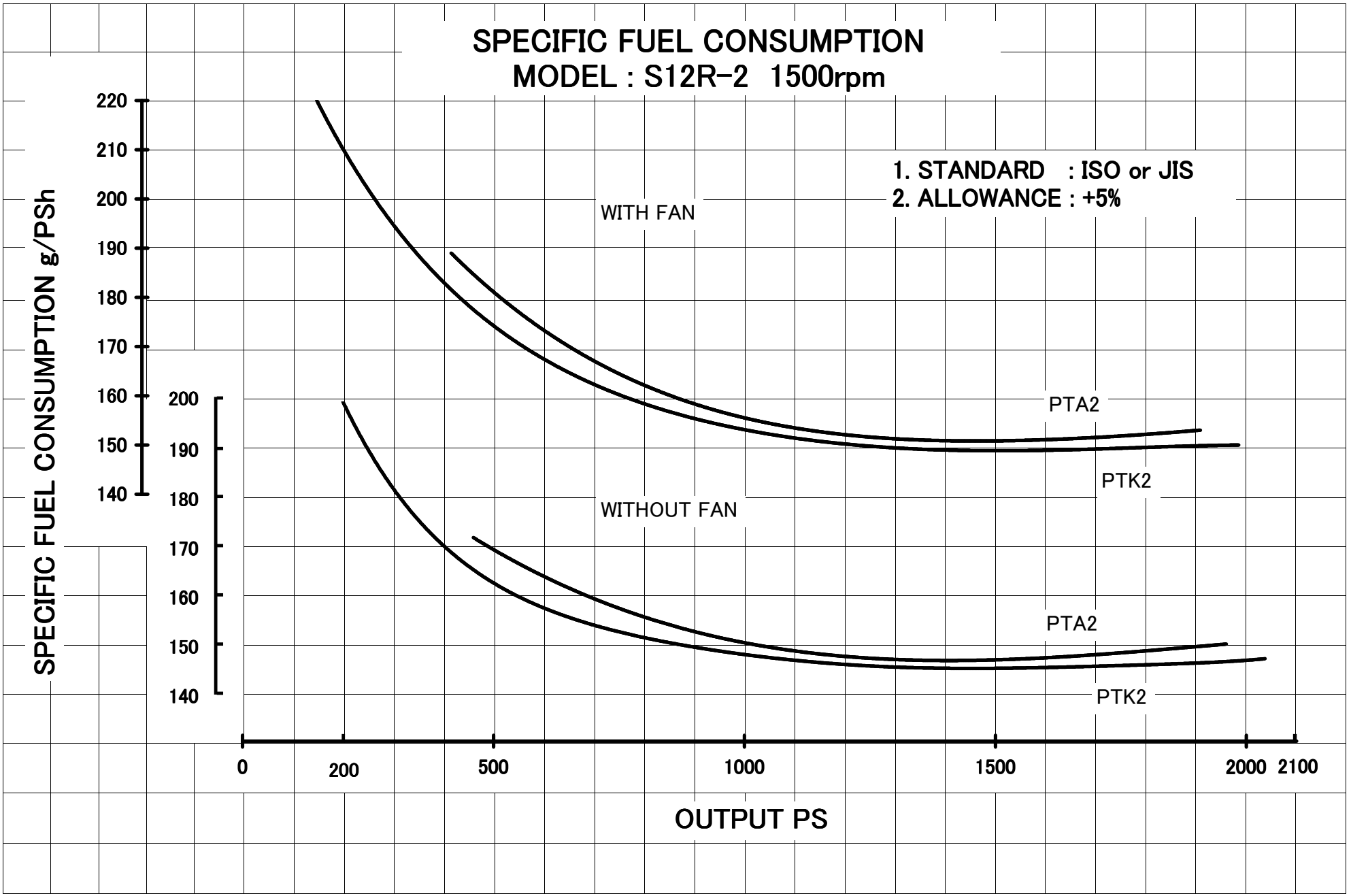
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%

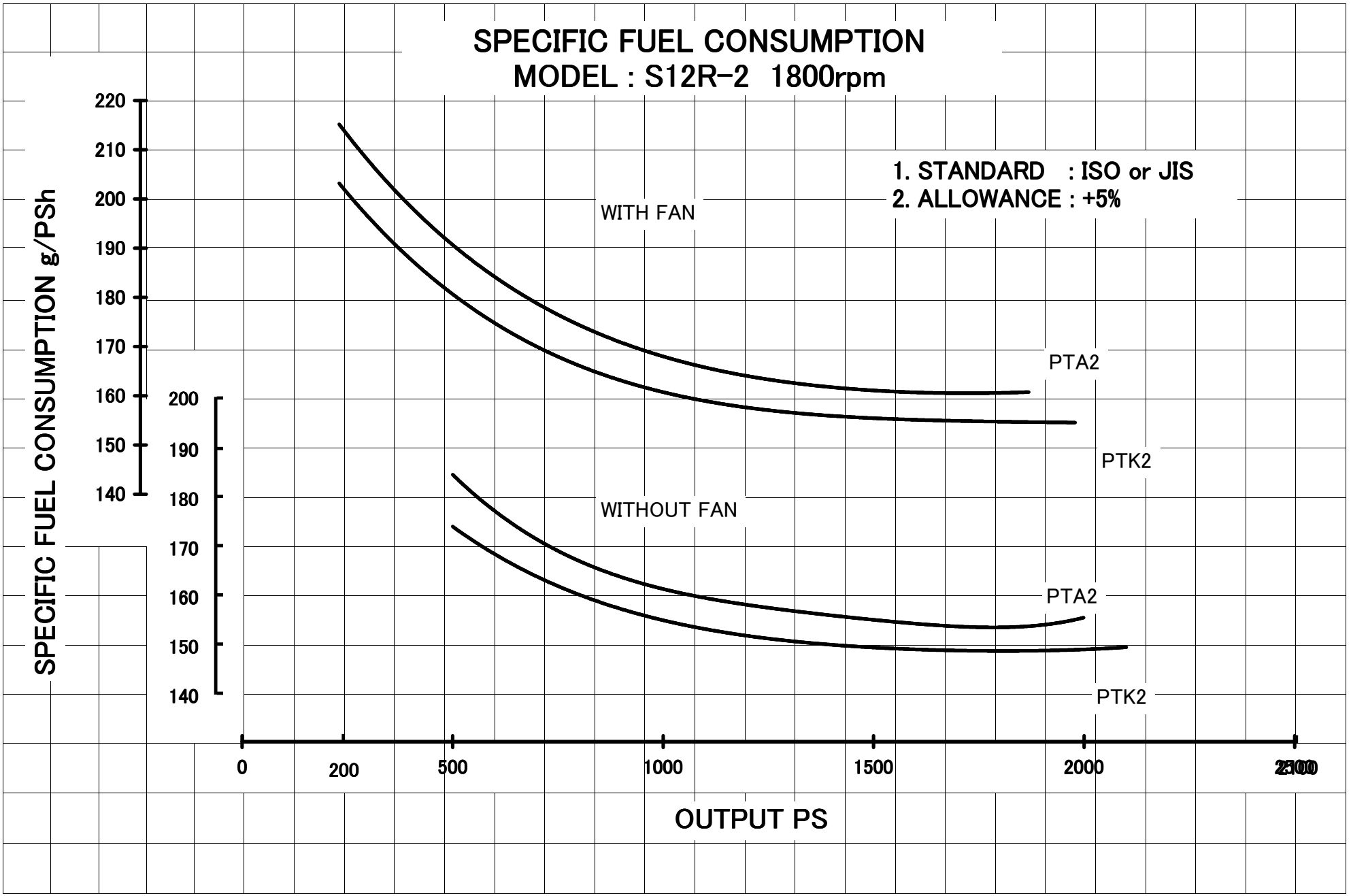


SPECIFIC FUEL CONSUMPTION
MODEL : S16R-PTAA2

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




SPECIFIC FUEL CONSUMPTION
MODEL : S12R-2 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
PTA2
PTK2
WITHOUT FAN
PTA2
PTK2
SPECIFIC FUEL CONSUMPTION g/PSh
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


SPECIFIC FUEL CONSUMPTION
MODEL : S12R-2 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
PTA2
PTK2
WITHOUT FAN
PTA2
PTK2
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
140
200
190
180
170
160
150
140
0
200
500
1000
1500
2000
2500
OUTPUT PS