MITSUBISHI S16R-PTA2

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MITSUBISHI DIESEL ENGINE TECHNICAL INFORMATION	ITEM NO.	T0216-0006E Rev.2 (1/4)
	DATE	February, 2014

Specification Sheets of S16R-PTA2 Engine

Specification Sheets of S16R-PTA2 Engine are enclosed herein.

Revision				
	First Edition : September, 2007 (T13-0312-E Jun.99)	Engine Engineering Department High Speed Engine Designing Section		
	Rev.1 : Mar., 2013			
	Rev.2 : Feb., 2014	Approved by	Checked by	Drawn by

GENERAL ENGINE DATA

Type	4-Cycle, Water Cooled	
Aspiration	Turbo-Charged, After Cooler (Jacket water to Cooler)	
Cylinder Arragement	60°V	
No.of Cylinders	16	
Bore mm(in.)	170	(6.69)
Stroke mm(in.)	180	(7.09)
Displacement liter(in^3)	65.37	(3989)
Compression Ratio	13.5:1	
Dry Weight - Engine only - kg(lb)	6850	(15104)
Wet Weight - Engine only - kg(lb)	7227	(15936)

PERFORMANCE DATA

Steady State Speed Stability Band any Constant Load Hydraulic (std.) or Electric Governor - %	±0.25 or better	
Maximum Overspeed Capacity - rpm	2100	
Moment of inertia of Rotating Components - kgf·m^2(lbf·ft^2) (Includes Std.Flywheel)	80.83	(1918)
Cyclic Speed Variation with Flywheel at 1800rpm	1/254	
1500rpm	1/170	

ENGINE MOUNTING

Maximum Bending Moment at Rear Face of Flywheel Housing - kgf·m(lbf·ft)	450	(3256)

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)	5～6.5	(71～93)
Maximum Oil Temperature - °C(°F)	110	(230)
Oil Capacity of Standard Pan High - liter (U.S.gal)	200	(52.8)
Low - liter (U.S.gal)	140	(37.0)
Total System Capacity (Includes Oil Filter) - liter (U.S.gal)	230	(60.8)
Maximum Angle of Installation (Std. Pan) Front Down	5°	
(Engine Only) Front Up	5°	
Side to Side	22.5°	

COOLING SYSTEM

Coolant Capactiy (Engine only) - liter (U.S.gal)	170	(44.9)
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)	2	(28.6)
Standard Thermostat (modulating)Range- °C(°F)	71～85	(160～185)
Maximum Coolant Temperature at Engine Outlet- °C(°F)	98	(208)
Minimum Coolant Expansion Space - % of System Capacity	10	
Maximum Coolant Temperature at Intercooler Inlet, TK type- °C(°F)		
Maximum Air Restriction on Discharge Side of Radiator and Fan-mm H_2O(in.H_2O)	10	(0.4)

FUEL SYSTEM

Fuel Injector	Mitsubishi PS8 × 2	
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	24-7.5×2
Maximum Allowable Resistance of Cranking Circuit - m Ω	1.5
Recommended Minimum Battery Capacity	
At 5°C(41°F) and above - Ah	300
Below 5°C(41°F) through - 5°C(23°F)	600

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		16					
Bore	mm (in.)	170 (6.69)					
Stroke	mm (in.)	180 (7.09)					
Displacement	liter ($in.^3$)	65.37 (3989)					
Brake Horse power without Fan	HP (kW)	2614 (1950)	2399 (1790)		2379 (1775)	2185 (1630)	
Brake Mean Effective Pressure without Fan	kgf/cm^2 (psi)	20.3 (289)	22.3 (317)		18.5 (263)	20.3 (289)	
Mean Piston Speed	m/s (ft/min)	10.8 (2126)	9.0 (1772)		10.8 (2126)	9.0 (1772)	
Maximum Regenerative Power Absorption Capacity without Fan	HP (kW)	258 (192)	188 (140)		258 (192)	188 (140)	
Intake Air flow	m^3/min (CFM)	160 (5650)	143 (5049)		145 (5120)	130 (4590)	
Exhaust Gas Flow	m^3/min (CFM)	424 (14971)	379 (13382)		384 (13559)	343 (12111)	
Coolant Flow	liter/min (U.S. GPM)	1850 (489)	1650 (436)		1850 (489)	1650 (436)	
Coolant Flow to Intercooler (TK only)	liter/min (U.S. GPM)	—	—		—	—	
Cooling Air Flow (Std. Fan)	m^3/min (CFM)	2040 (72032)	2040 (72032)		2040 (72032)	2040 (72032)	
Fan Loss Horse Power (Std. Fan)	HP (kW)	67 (50)	67 (50)		67 (50)	67 (50)	
Radiated Heat to Ambient	kcal/hr (BTU/min)	120782 (7988)	107912 (7137)		109196 (7222)	97617 (6456)	
Heat Rejection to Coolant	kcal/hr (BTU/min)	1006521 (66570)	899265 (59476)		909968 (60184)	813476 (53802)	
Heat Rejection to Inter Cooler (TK Version)	kcal/hr (BTU/min)	—	—		—	—	
Heat Rejection to Exhaust	kcal/hr (BTU/min)	1222072 (80826)	1051084 (69517)		1094735 (72404)	941276 (62255)	
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

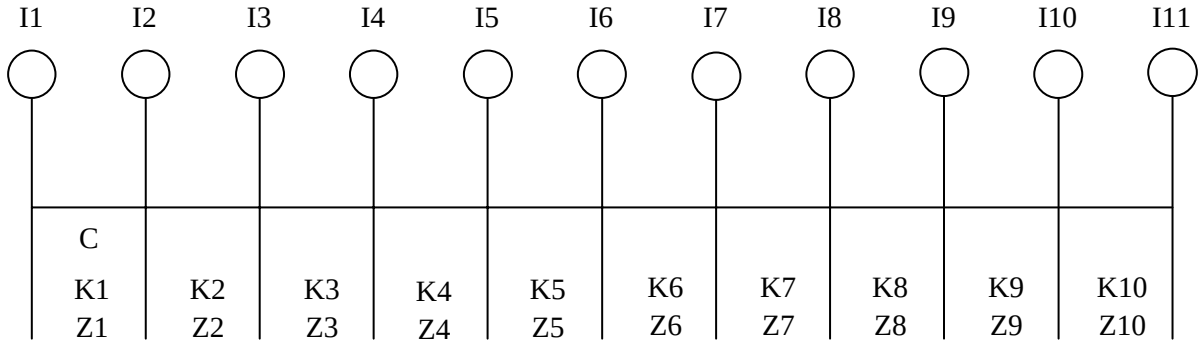
MITSUBISHI DIESEL ENGINE TECHNICAL INFORMATION	ITEM NO.	T0307-0008E Rev.2 (1/2)
	DATE	July, 2006

Elastic data of S16R Engine

Elastic data of S16R Engine are enclosed herein.

Revision				
	First Edition : July, 2006 (Refer to ELASTIC-S16R-PTA Oct.,2003, S16R.0)	Engine Engineering Department Large Engine Design Section		
	Rev.1 : July, 2006(Refer to MTD04-0106, S16R.0)	Approved by	Checked by	Drawn by
	Rev.2 : Feb, 2008			

S16R-PTA ELASTIC DATA



(USE:45R89-19502 CONNECTING ROD)

	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 ×2pcs	2.020	C=1049.3	K1=0.0	0.0	Z1 =0.0
I2	PULLEY	2.160	—	K2=1.089	834	Z2 =373.7
I3	No.1 CRANK	1.045	—	K3=0.847	834	Z3 =373.7
I4	No.2 CRANK	1.045	—	K4=0.847	834	Z4 =373.7
I5	No.3 CRANK	1.045	—	K5=0.847	834	Z5 =373.7
I6	No.4 CRANK	1.045	—	K6=0.847	834	Z6 =373.7
I7	No.5 CRANK	1.045	—	K7=0.847	834	Z7 =373.7
I8	No.6 CRANK	1.045	—	K8=0.847	834	Z8 =373.7
I9	No.7 CRANK	1.045	—	K9=0.847	834	Z9 =373.7
I10	No.8 CRANK	1.044	—	K10=1.363	834	Z10=373.7
I11	FLYWHEEL 21in	11.21	—			

Hysteresis constant:130 No. of Cylinder: 16 Bore:170mm Stroke:180mm

Length of Con-Rod: 340mm Weight of Reciprocating Parts: 12.63 kg

Firing order:1-9-6-14-2-10-4-12-8-16-3-11-7-15-5-13

Firing interval:0-60-90-150-180-240-270-330-360-420-450-510-540-600-630-690

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

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.

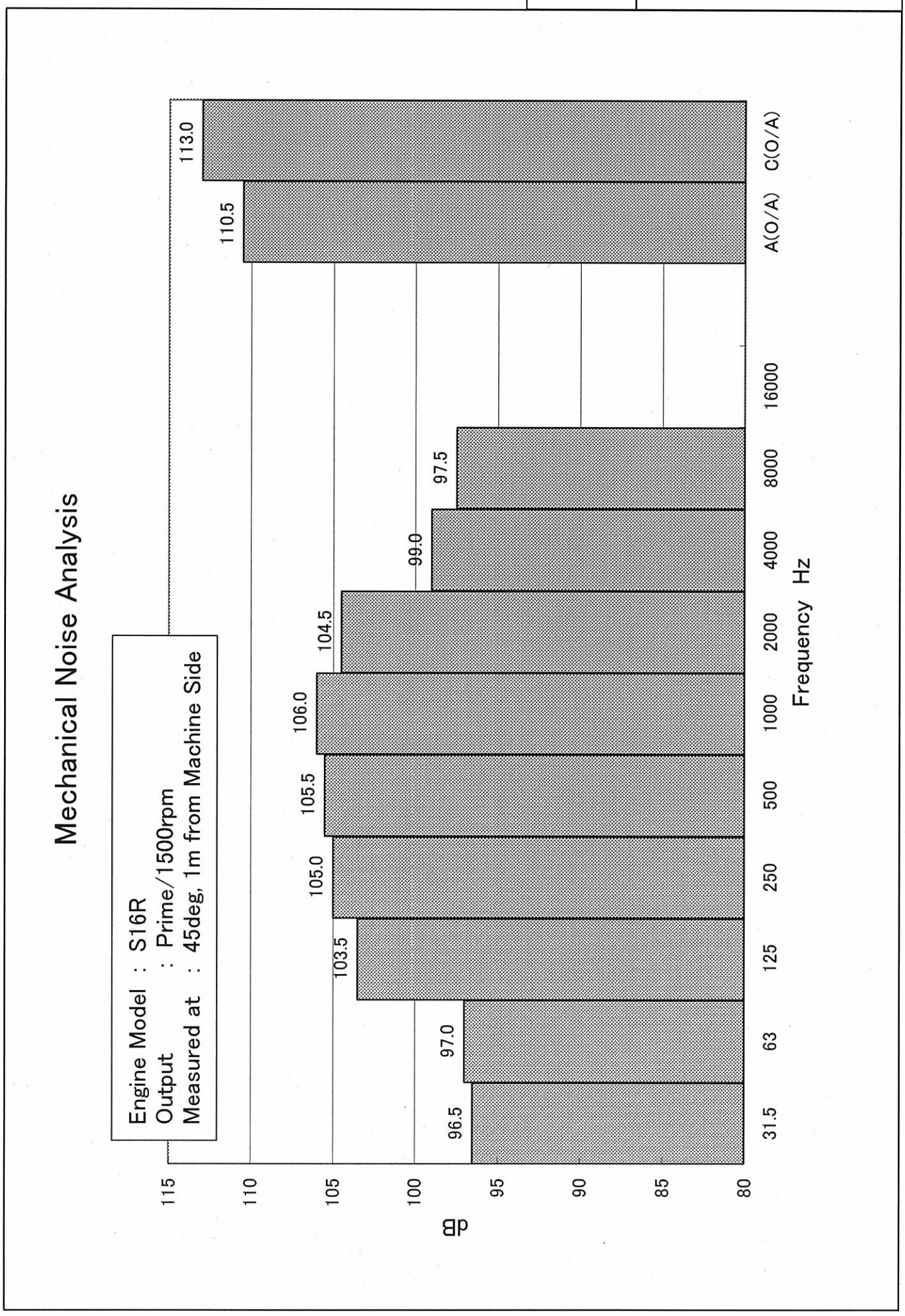
ITEM NO. T0402-0001E Rev.1 (2/2)

MITSUBISHI DIESEL ENGINE TECHNICAL INFORMATION	ITEM NO.	T0404-0010E (1/3)
	DATE	Sep., 2006

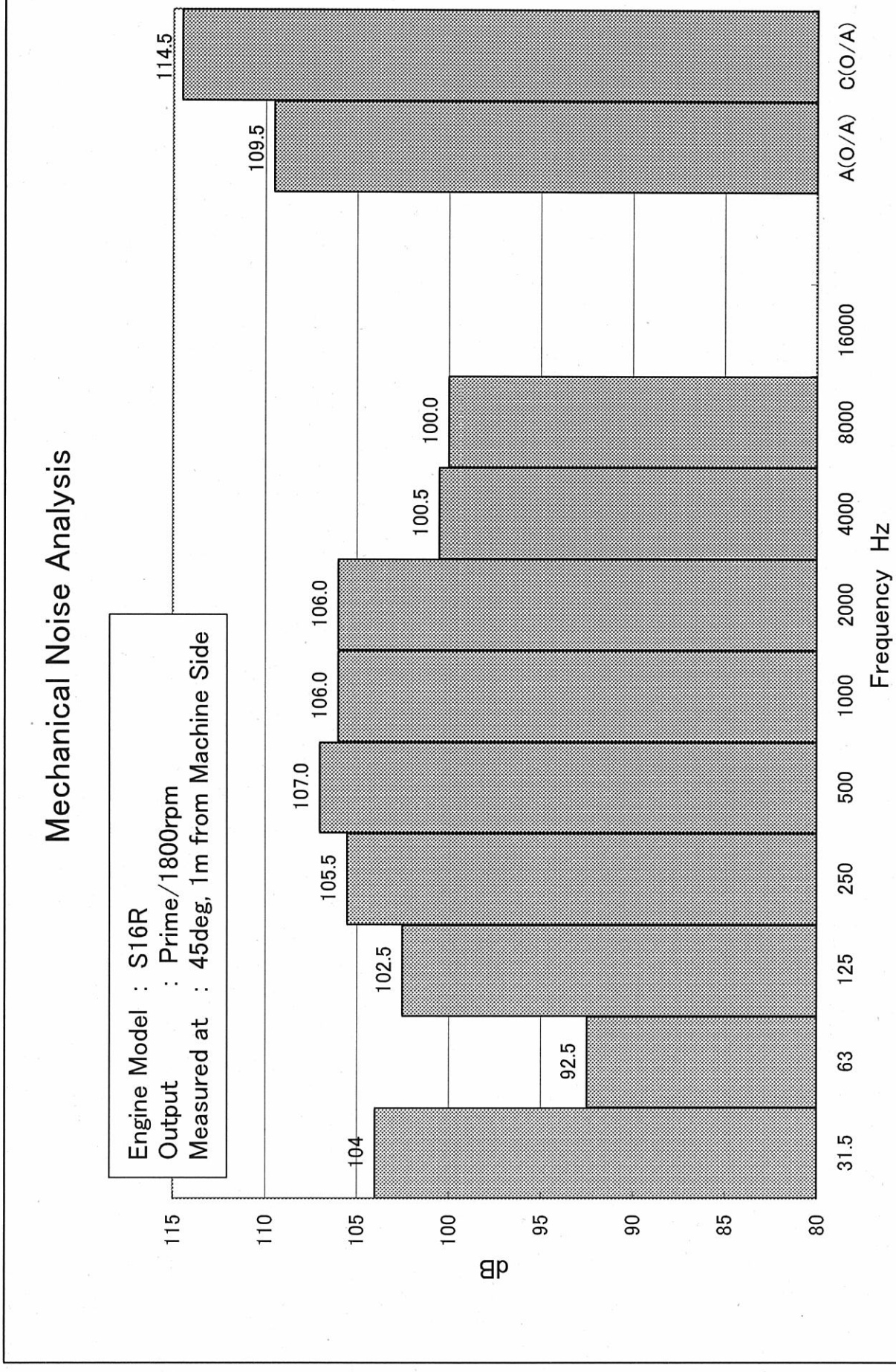
Mechanical Noize Data of S16R

Mechanical Noize Data of S16R is enclosed herein.

Revision	First Edition : Sep.,2006	Engine Engineering Department Large Engine Design Section		
		Approved by	Checked by	Drawn by


Mechanical Noise Analysis
Engine Model : S16R
Output : Prime/1500rpm
Measured at : 45deg, 1m from Machine Side
dB
115
110
105
100
95
90
85
80
113.0
110.5
97.5
99.0
104.5
106.0
105.5
105.0
103.5
97.0
96.5
31.5
63
125
250
500
1000
2000
4000
8000
16000
Frequency Hz
A(O/A)
C(O/A)

ITEM NO.	T0404-0010E (3/3)



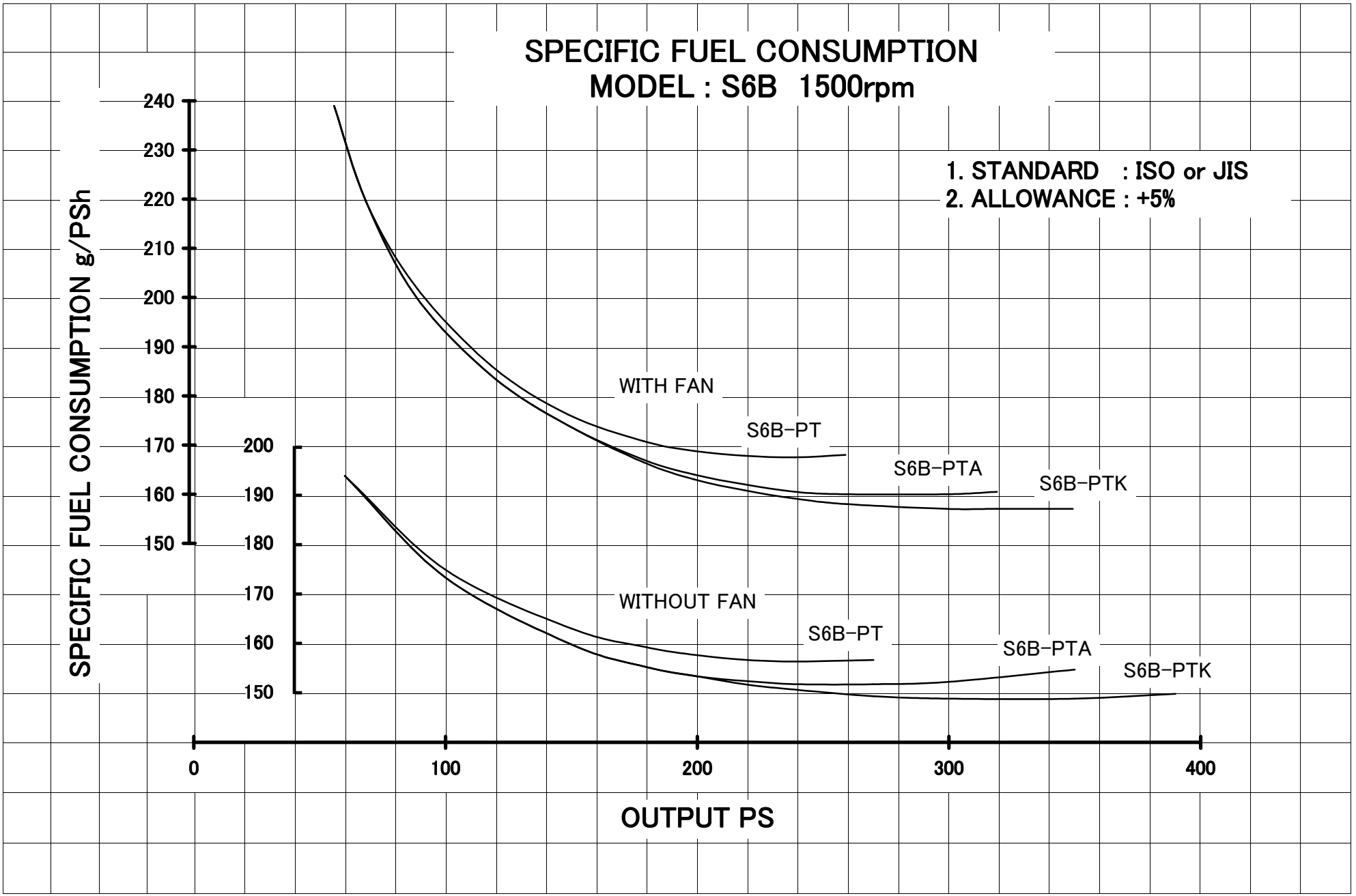
MITSUBISHI DIESEL ENGINE TECHNICAL INFORMATION	ITEM NO.	T33-0100-E
	DATE	Jun. 1999

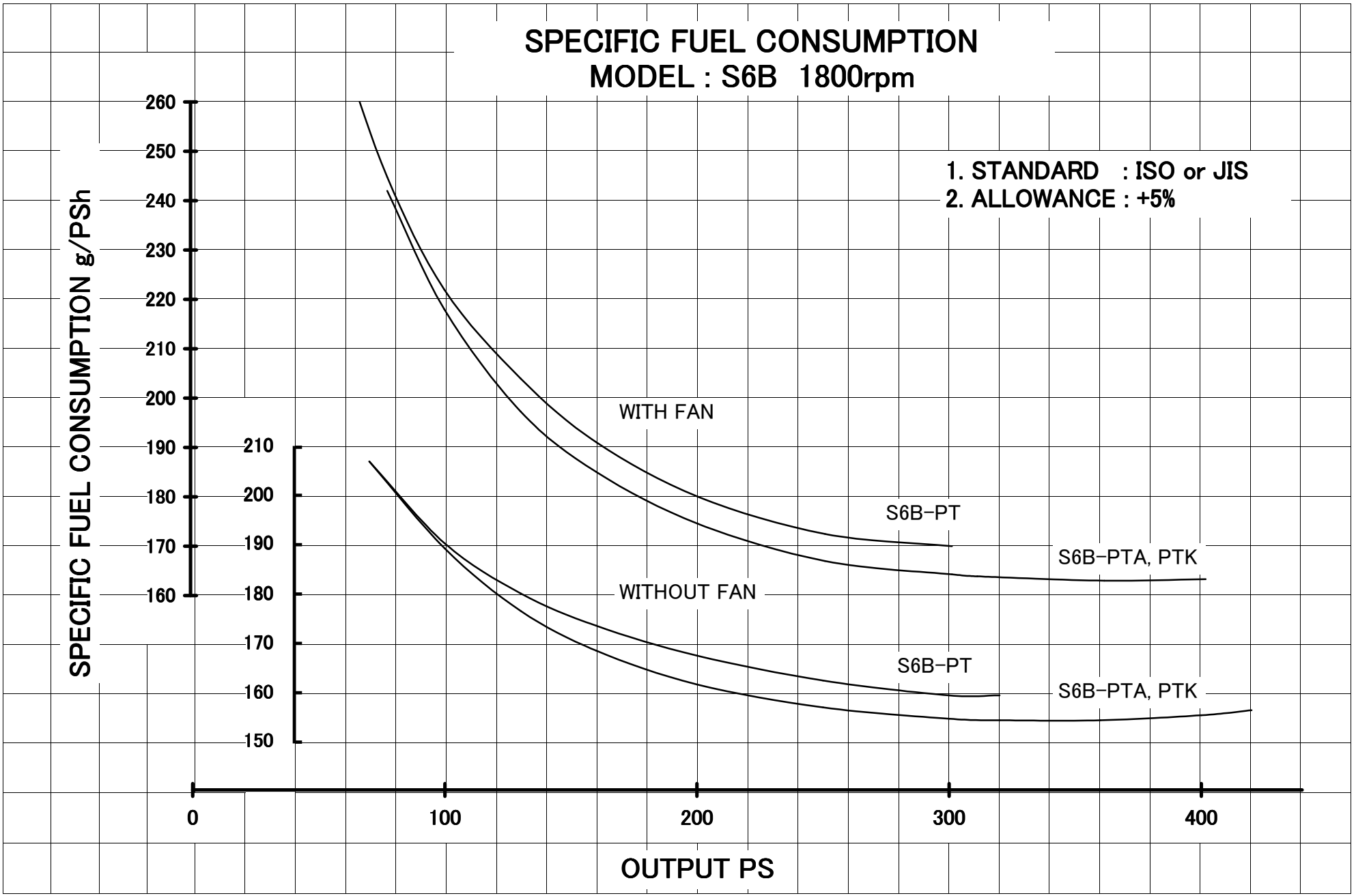
FUEL CONSUMPTION

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

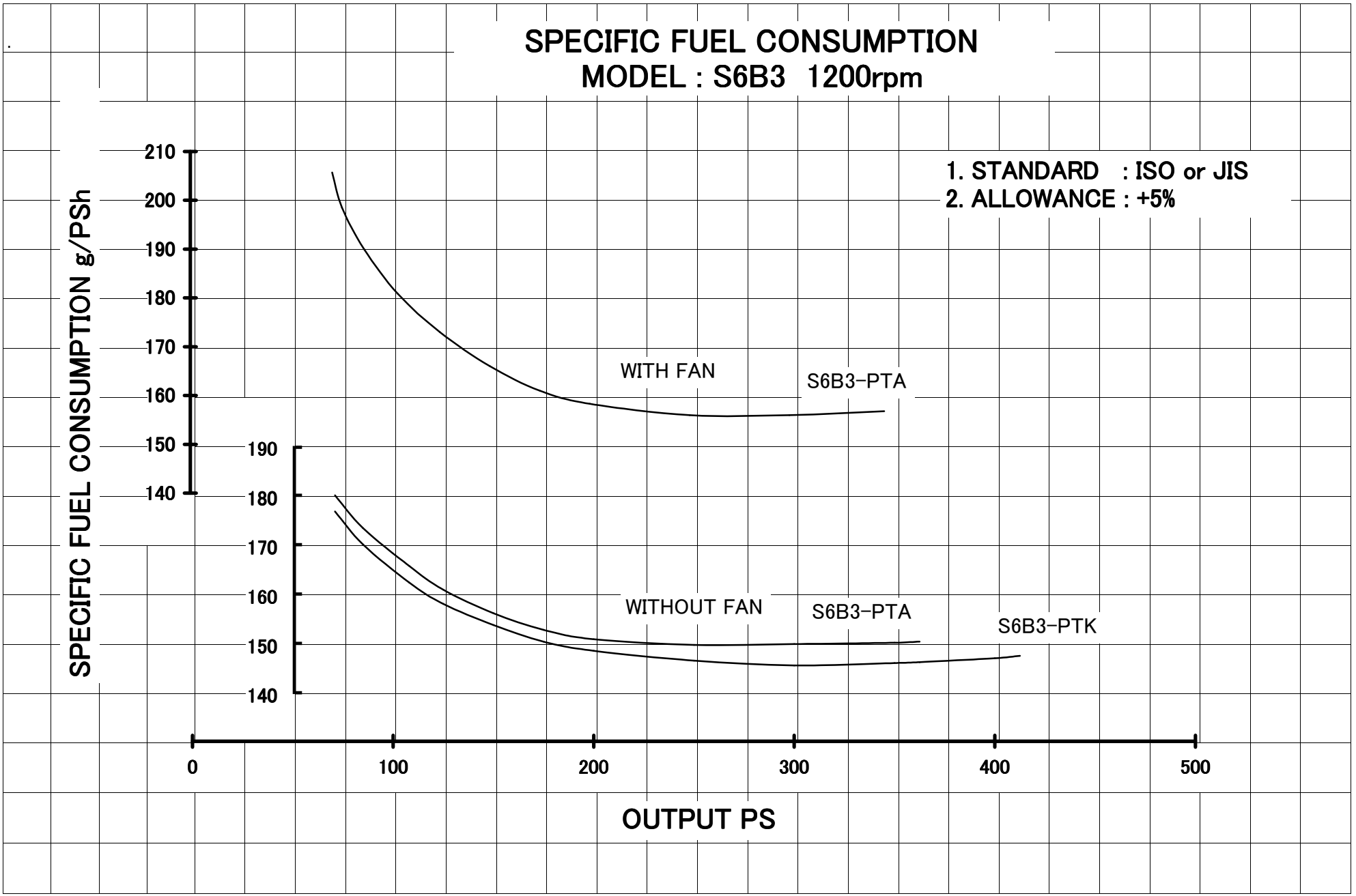
ENGINE MODEL	ENGINE rpm	REMARES
S6B-PTA, PTK	1500	W/Fan, W/O Fan
	1800	
S6B3-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
	1800	
S6A3-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
	1800	
S12A2-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
	1800	
S12H-PTA	1500	W/Fan, W/O Fan
	1800	
S6R-PTA, PTK	1200	W/Fan, W/O Fan
	1500	
	1800	
S6R2-PTA,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

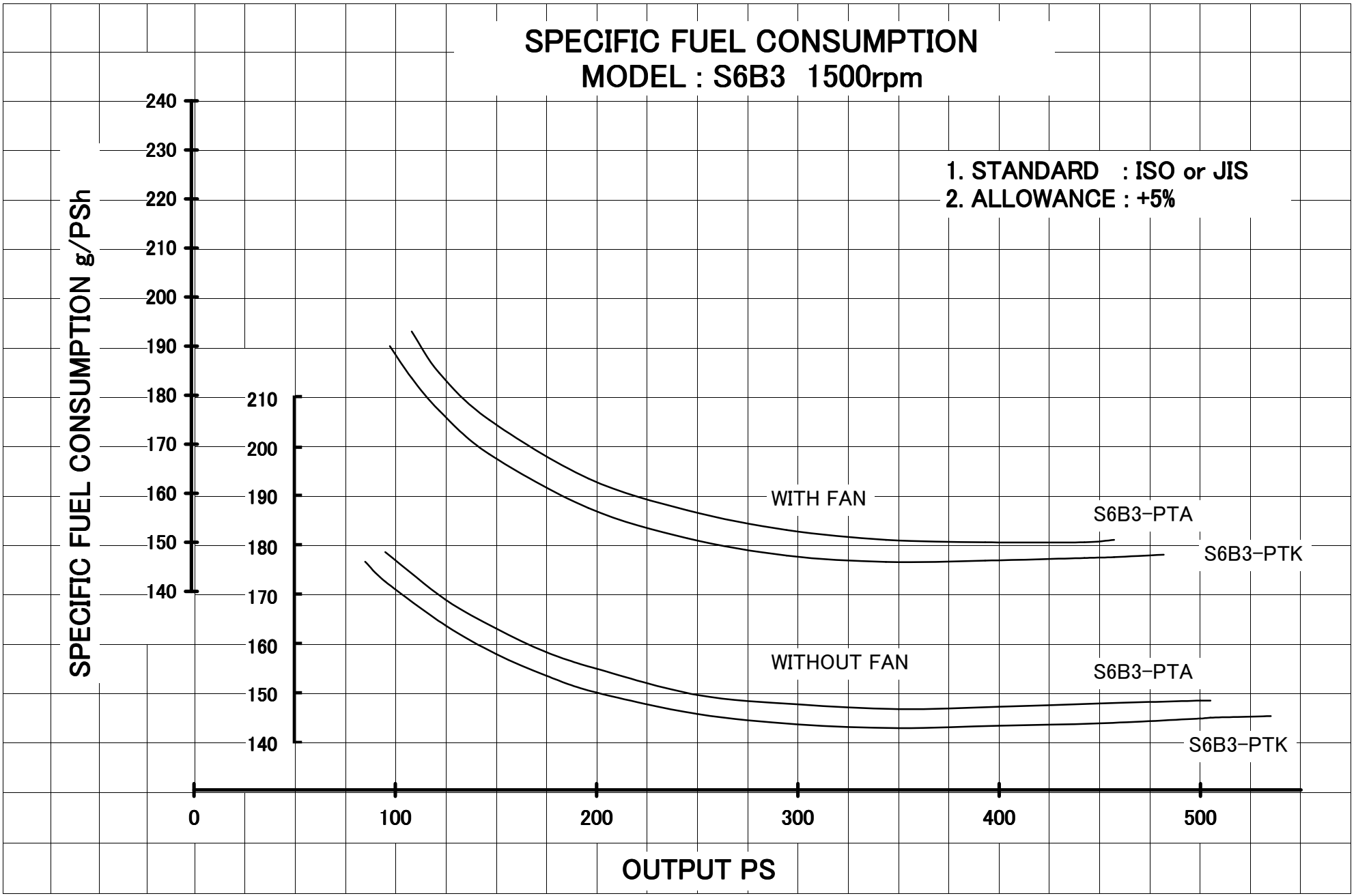
Revision				
	First Edition : Jun. 1999	Engineering Department Large Engine Design Section		
		Approved by	Checked by	Drawn by


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
WITH FAN
S6B-PT
S6B-PTA
S6B-PTK
200
190
180
170
160
150
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

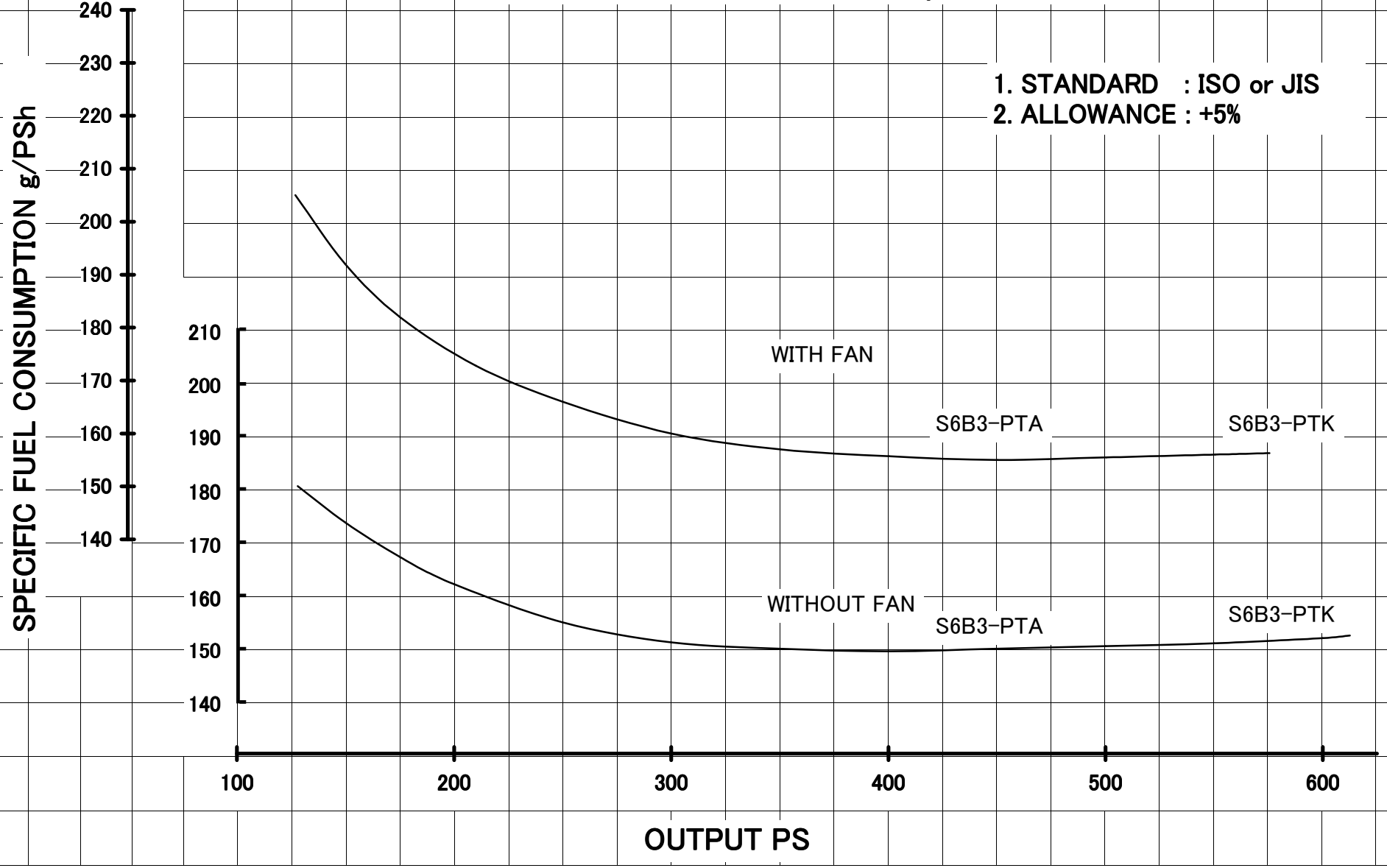
SPECIFIC FUEL CONSUMPTION
MODEL : S6B3 1200rpm



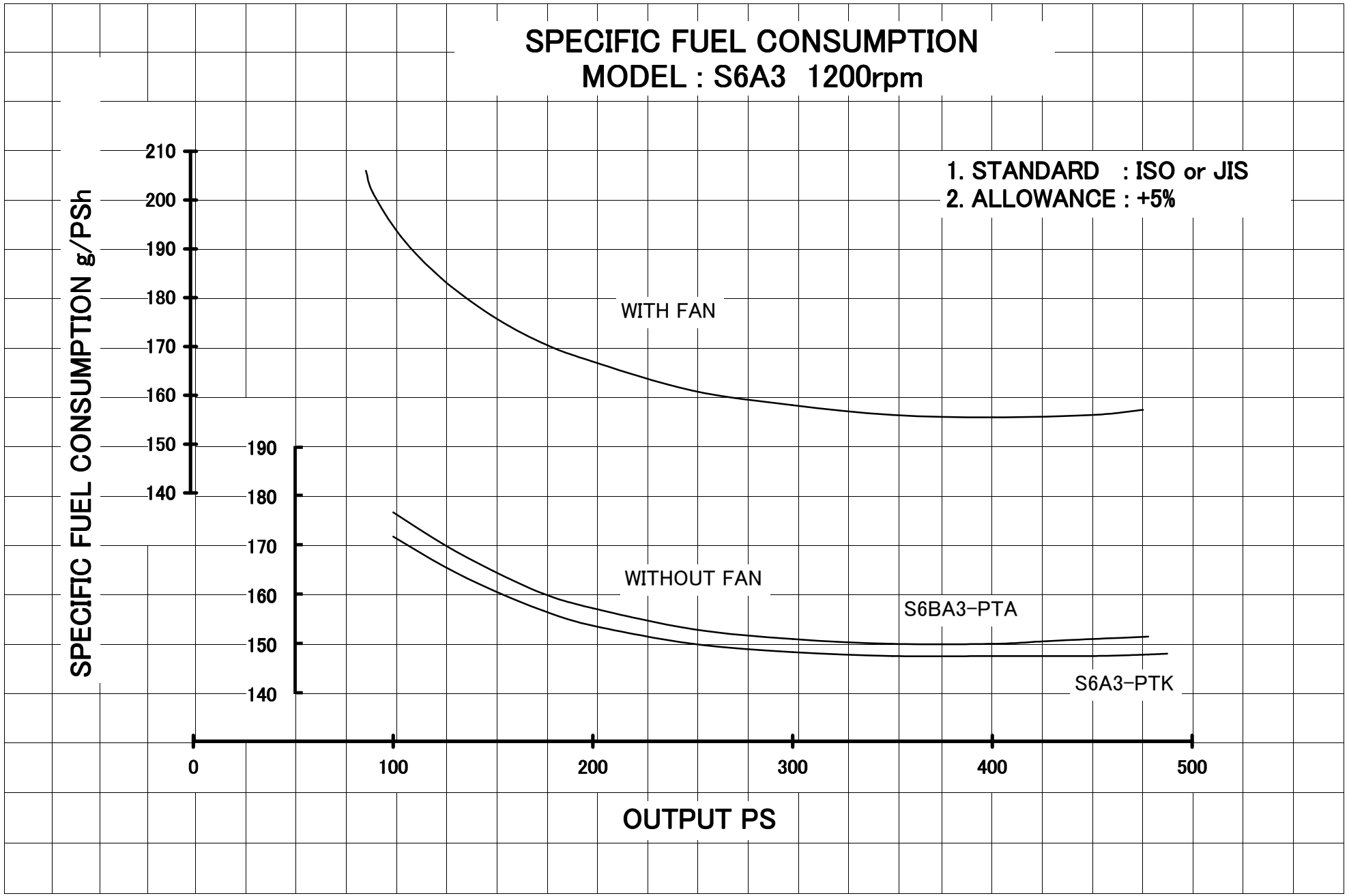

SPECIFIC FUEL CONSUMPTION
MODEL : S6B3 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
240
230
220
210
200
190
180
170
160
150
140
210
200
190
180
170
160
150
140
WITH FAN
S6B3-PTA
S6B3-PTK
WITHOUT FAN
S6B3-PTA
S6B3-PTK
0
100
200
300
400
500
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S6B3 1800rpm

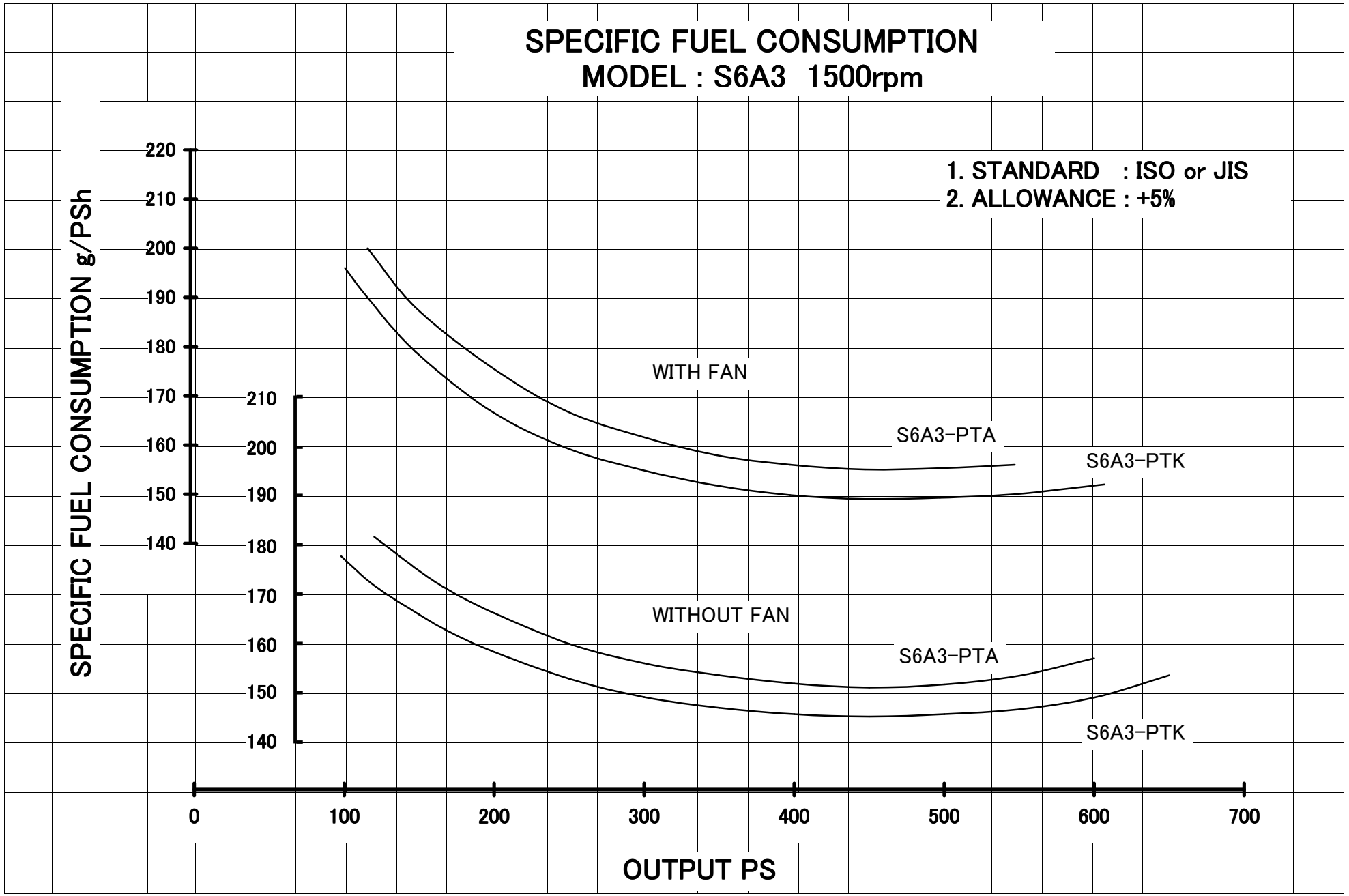
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



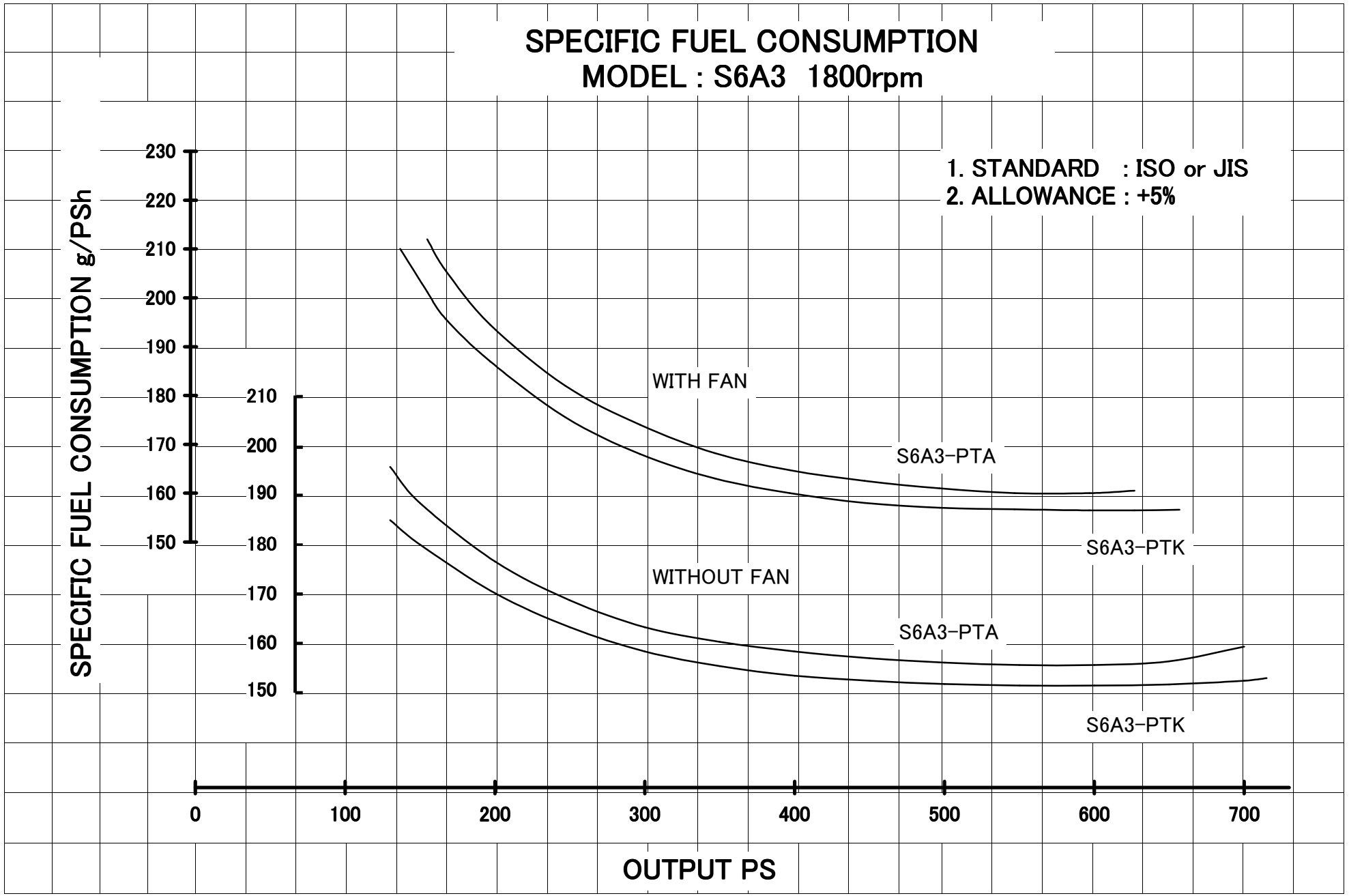
SPECIFIC FUEL CONSUMPTION
MODEL : S6A3 1200rpm

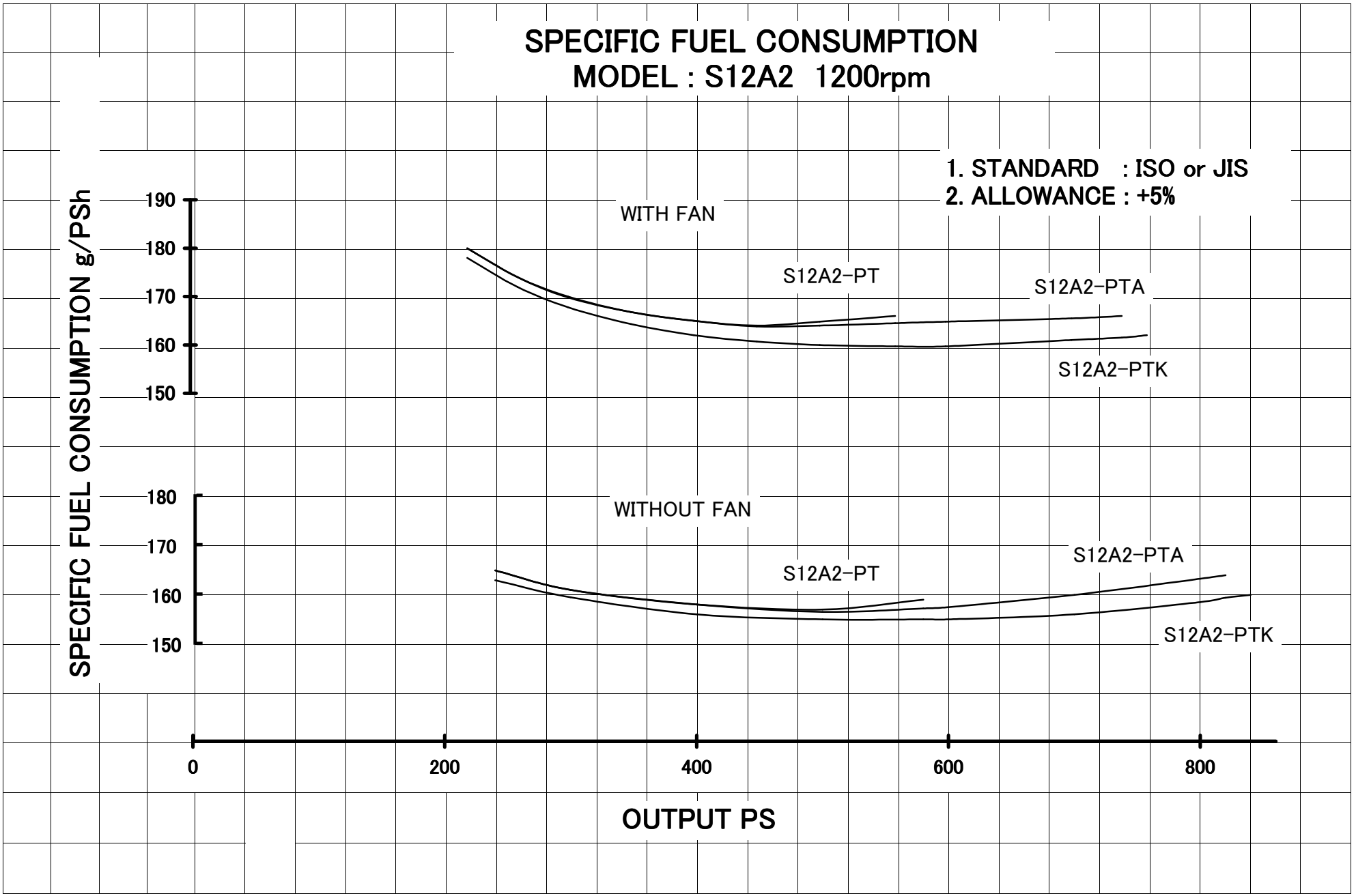


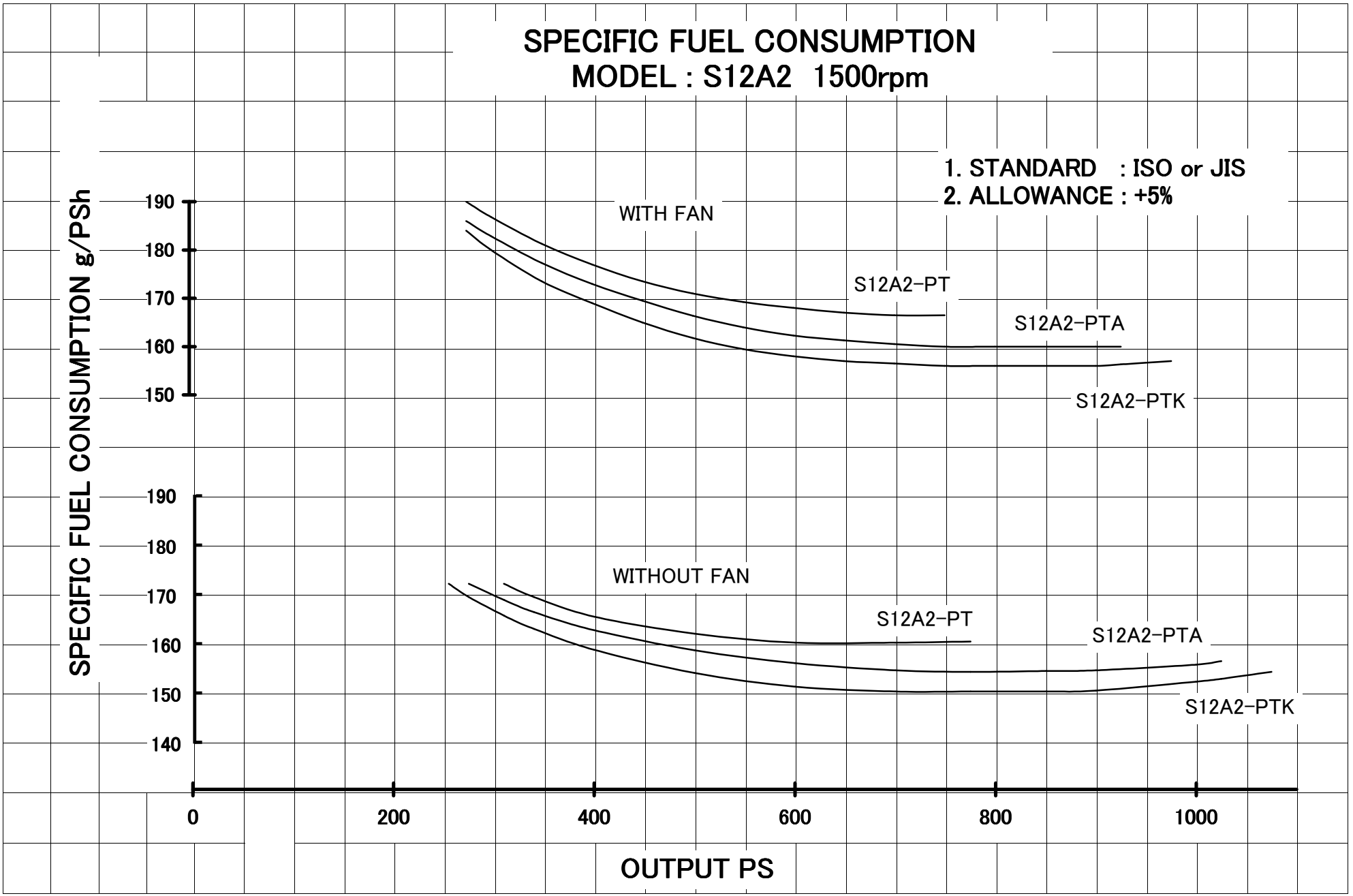
SPECIFIC FUEL CONSUMPTION
MODEL : S6A3 1500rpm

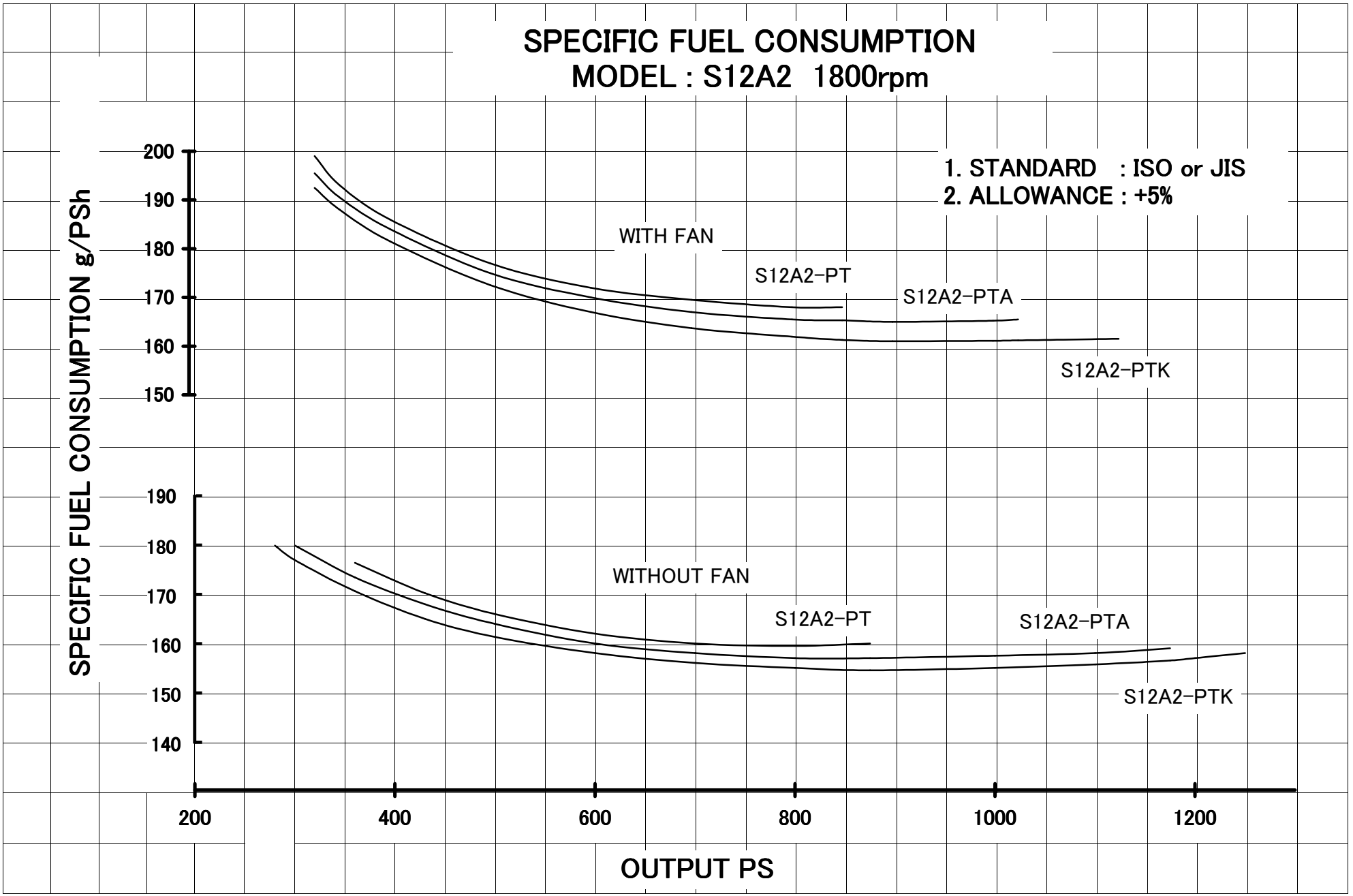


SPECIFIC FUEL CONSUMPTION
MODEL : S6A3 1800rpm



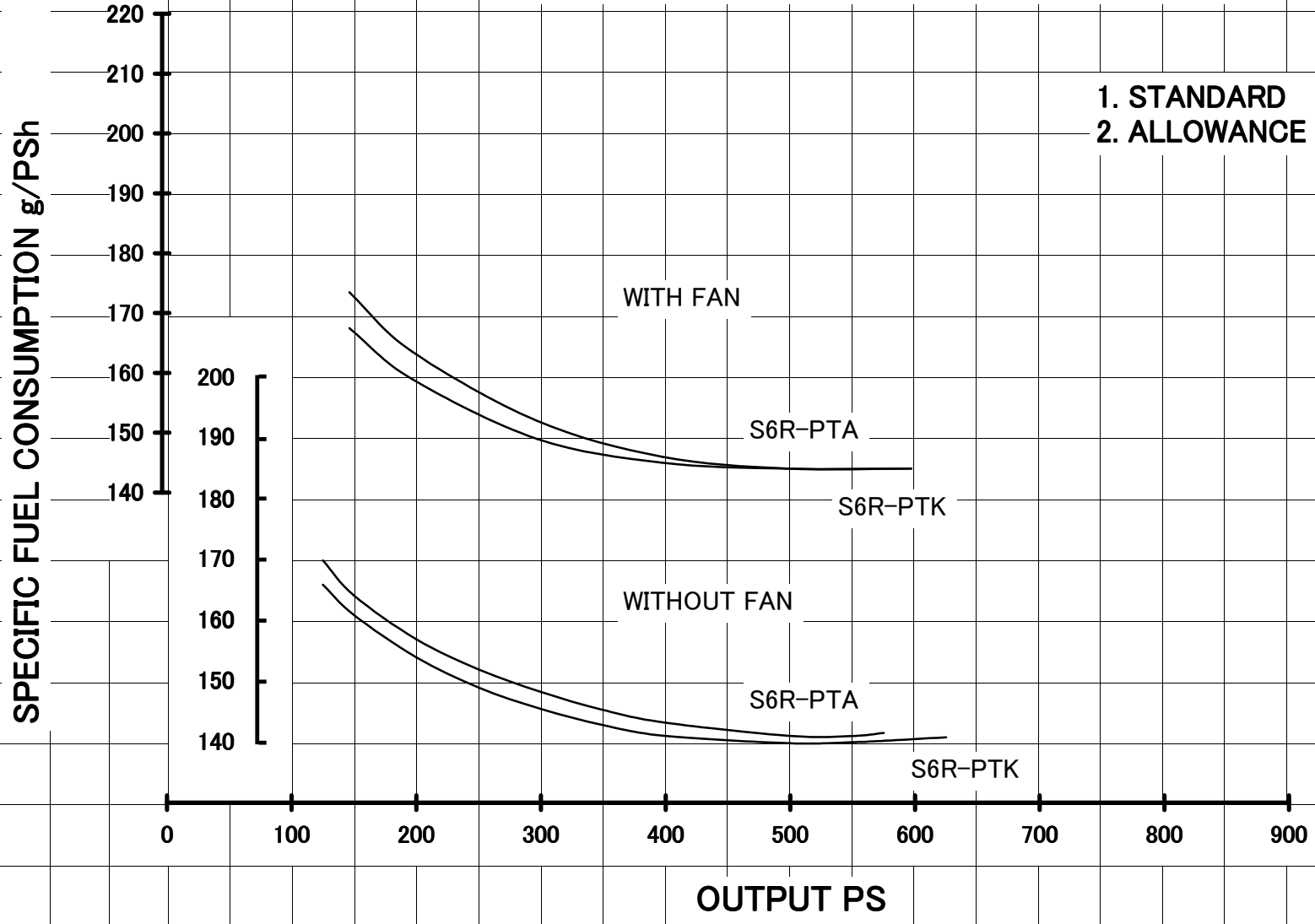

SPECIFIC FUEL CONSUMPTION
MODEL : S12A2 1200rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
S12A2-PT
S12A2-PTA
S12A2-PTK
WITHOUT FAN
S12A2-PT
S12A2-PTA
S12A2-PTK
SPECIFIC FUEL CONSUMPTION g/PSh
190
180
170
160
150
180
170
160
150
0
200
400
600
800
OUTPUT PS


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
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

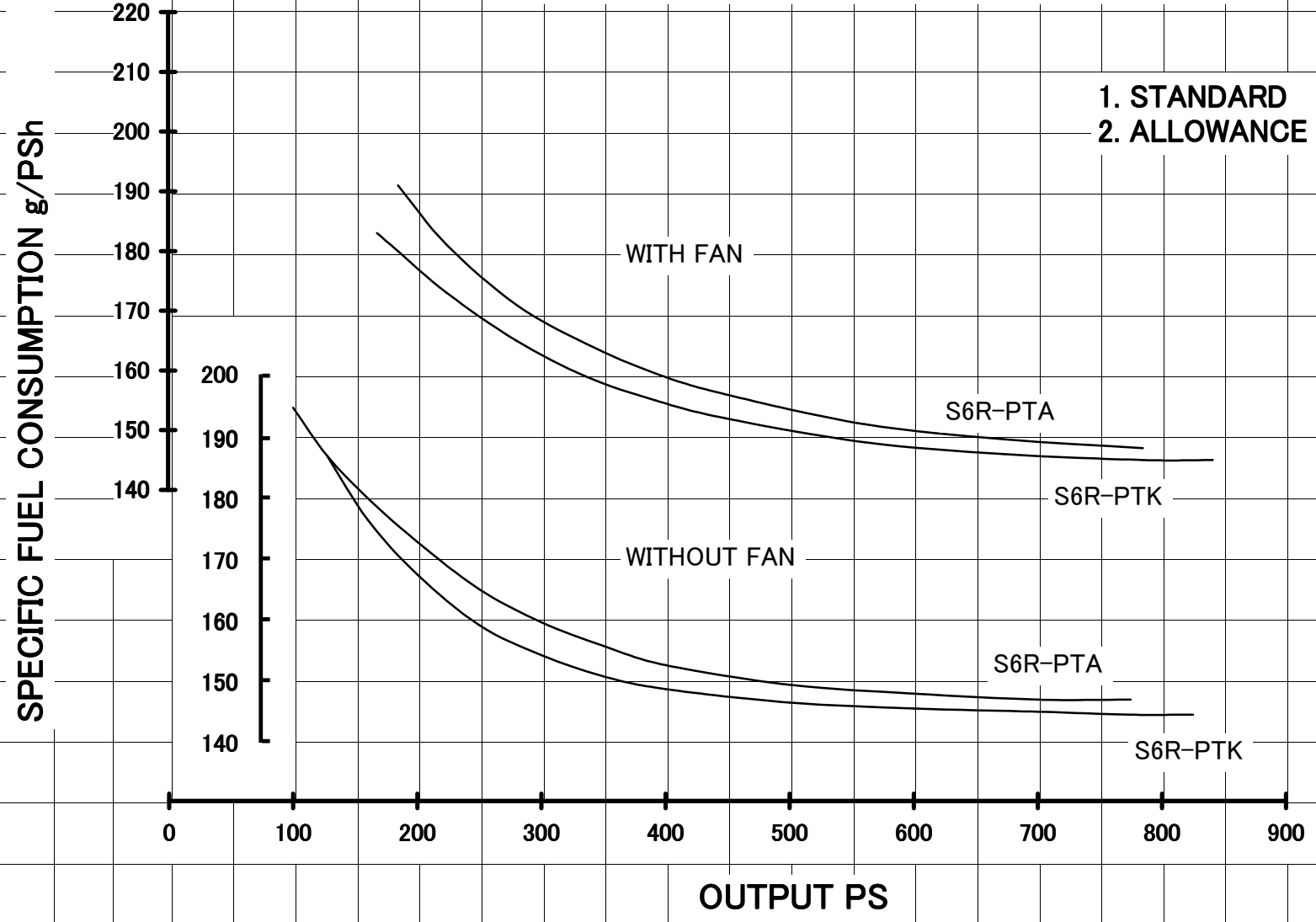
SPECIFIC FUEL CONSUMPTION
MODEL : S6R 1200rpm

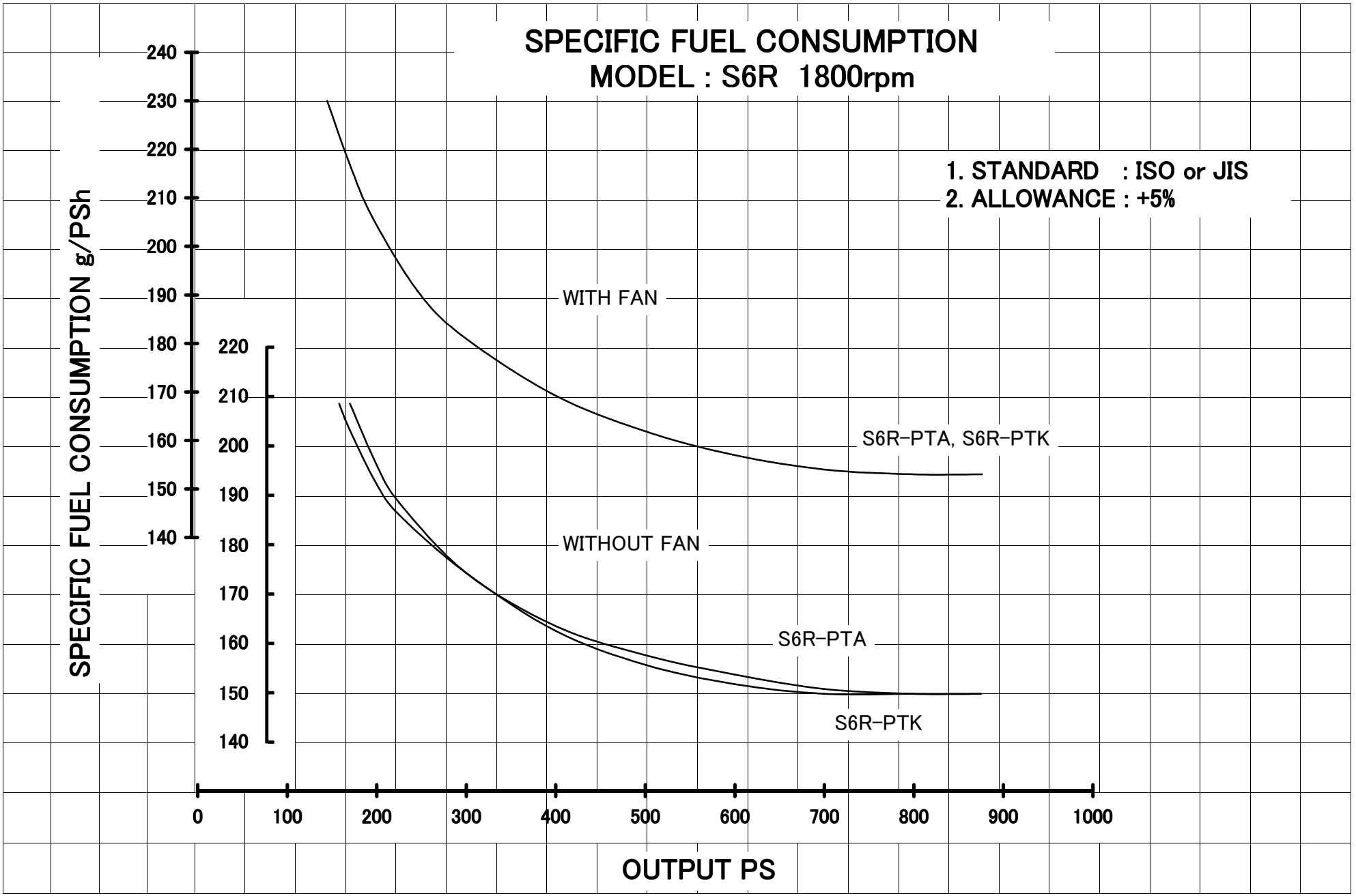
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



SPECIFIC FUEL CONSUMPTION
MODEL : S6R 1500rpm

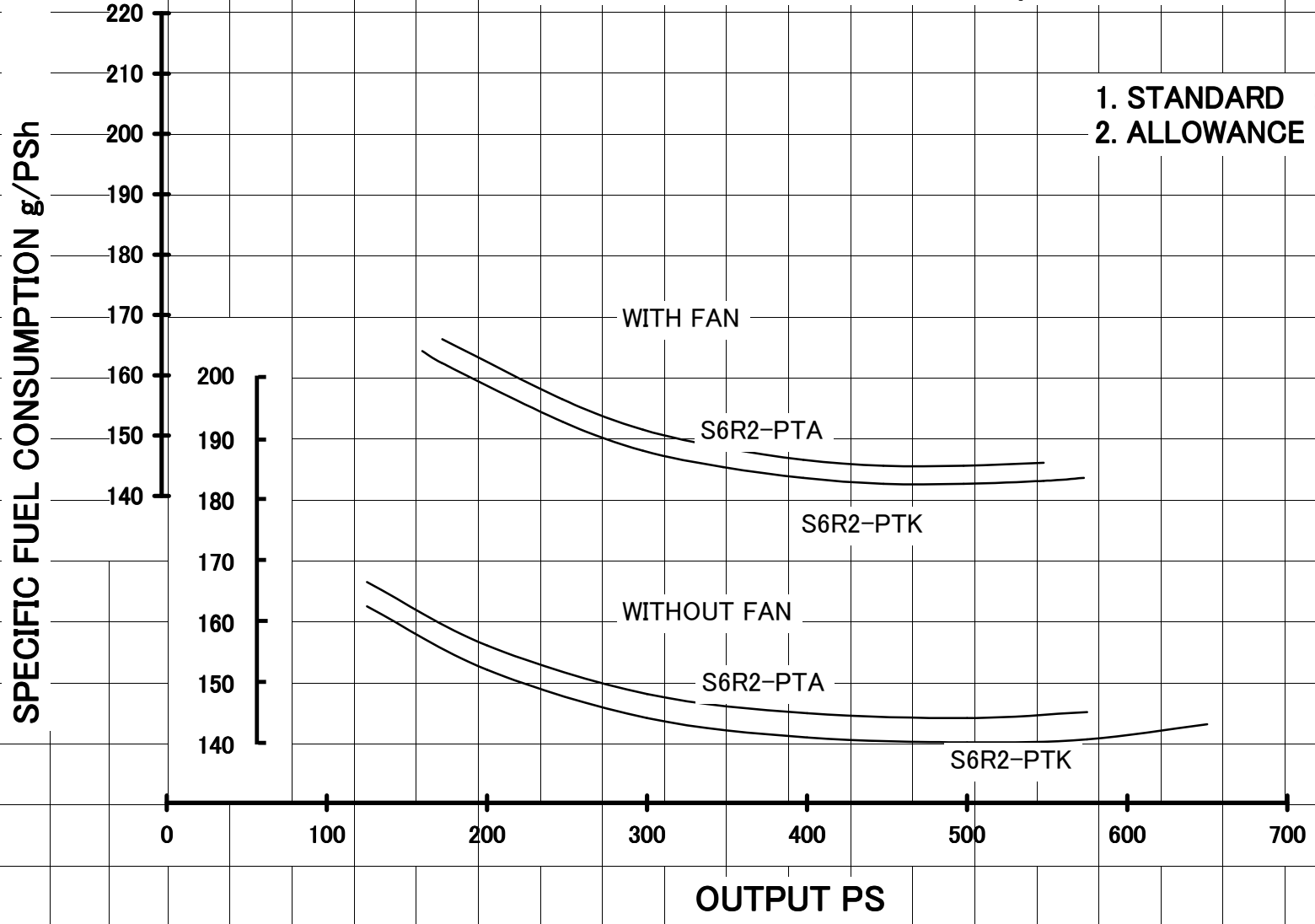
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%




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
220
210
200
190
180
170
160
150
140
WITH FAN
S6R-PTA, S6R-PTK
WITHOUT FAN
S6R-PTA
S6R-PTK
0
100
200
300
400
500
600
700
800
900
1000
OUTPUT PS

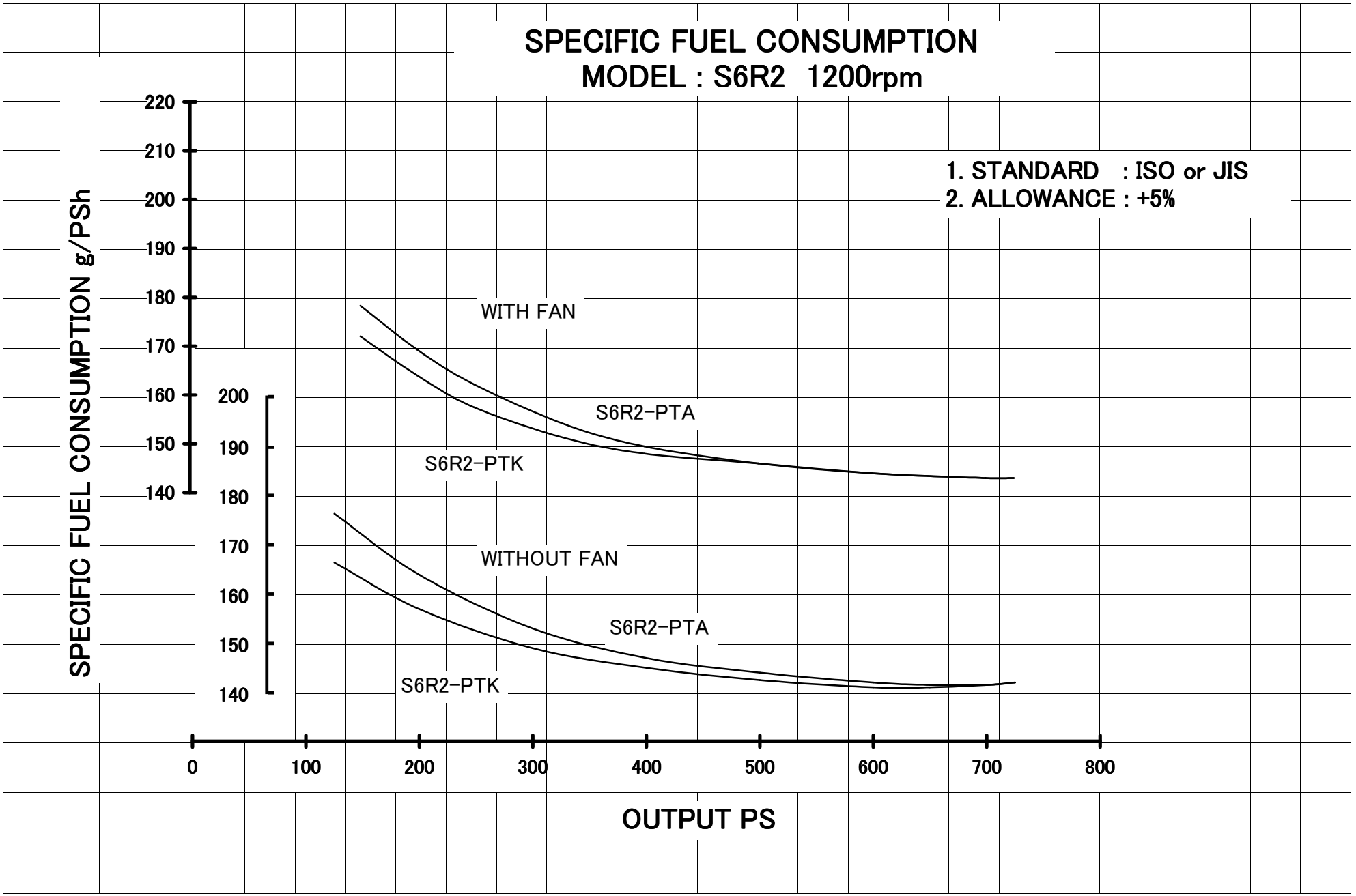
SPECIFIC FUEL CONSUMPTION
MODEL : S6R2 1000rpm

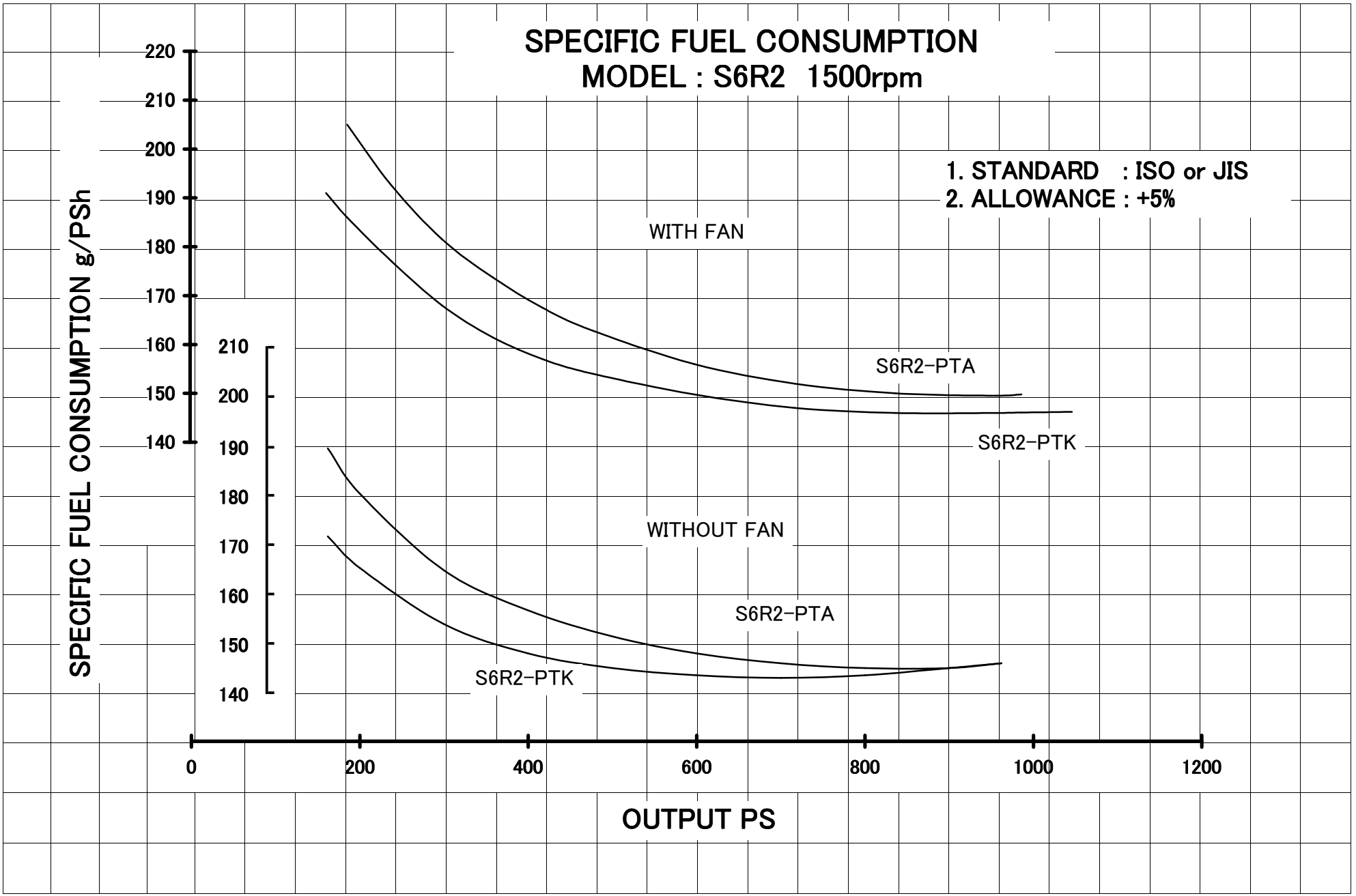
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



SPECIFIC FUEL CONSUMPTION
MODEL : S6R2 1200rpm

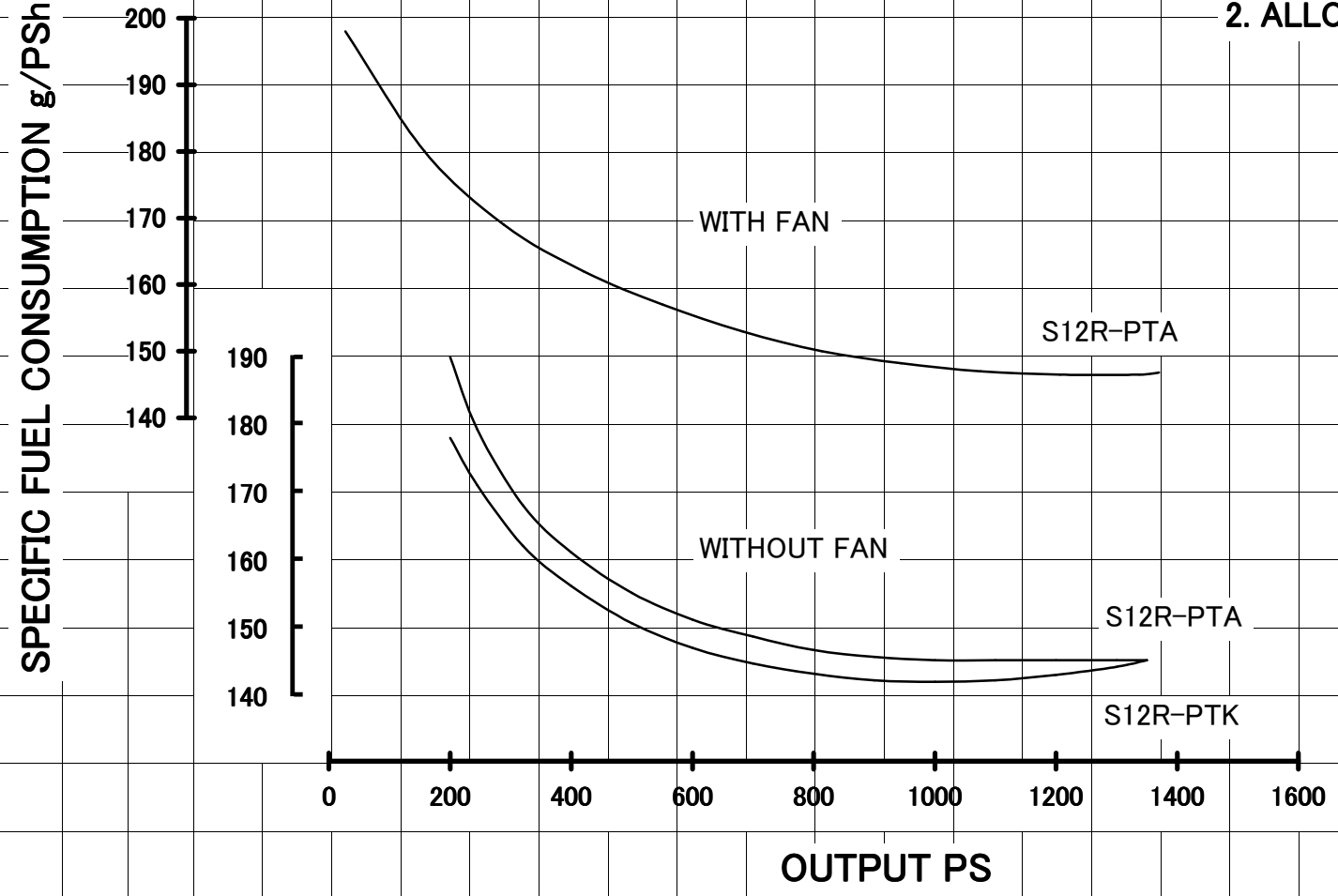
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%

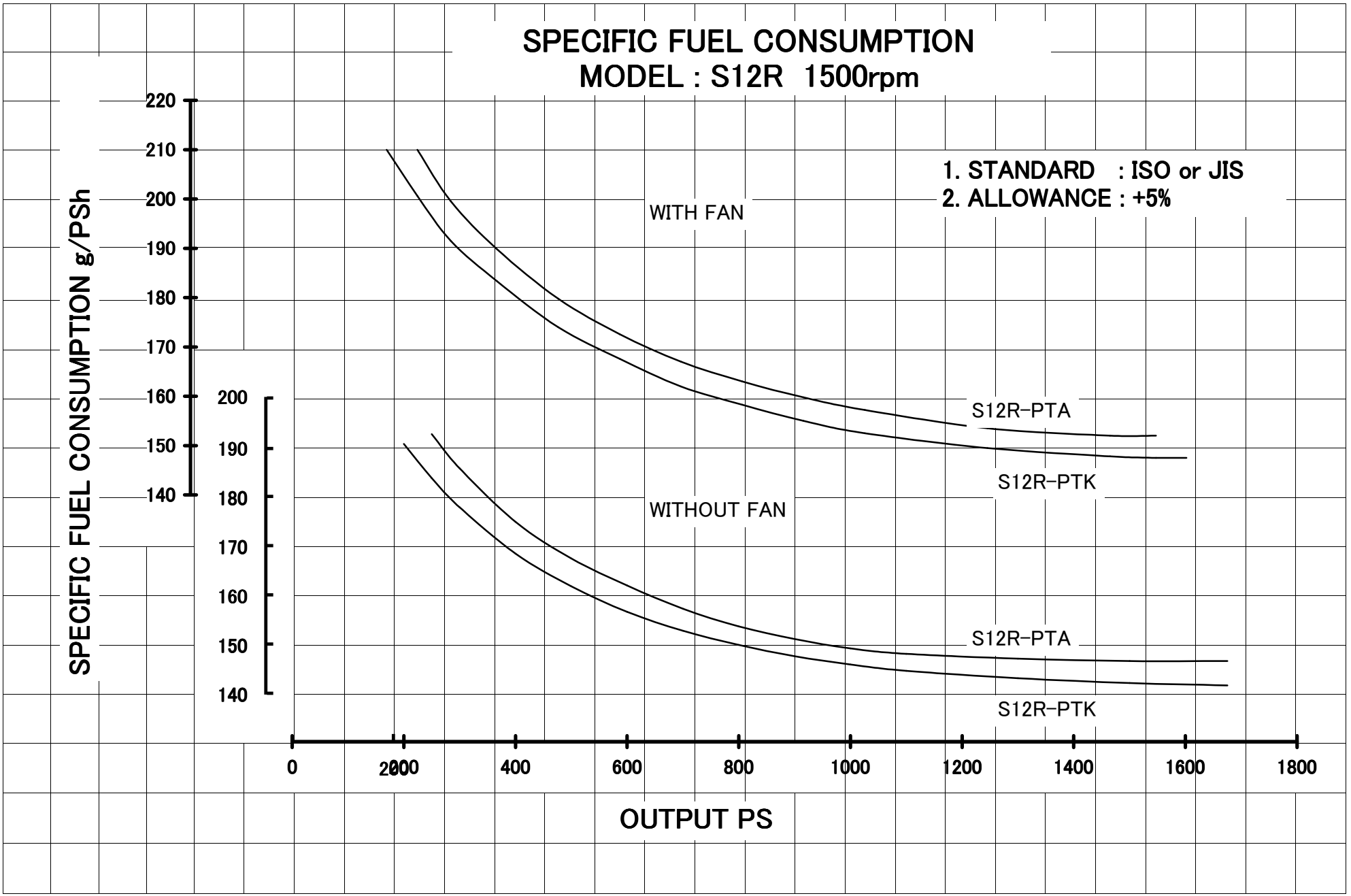


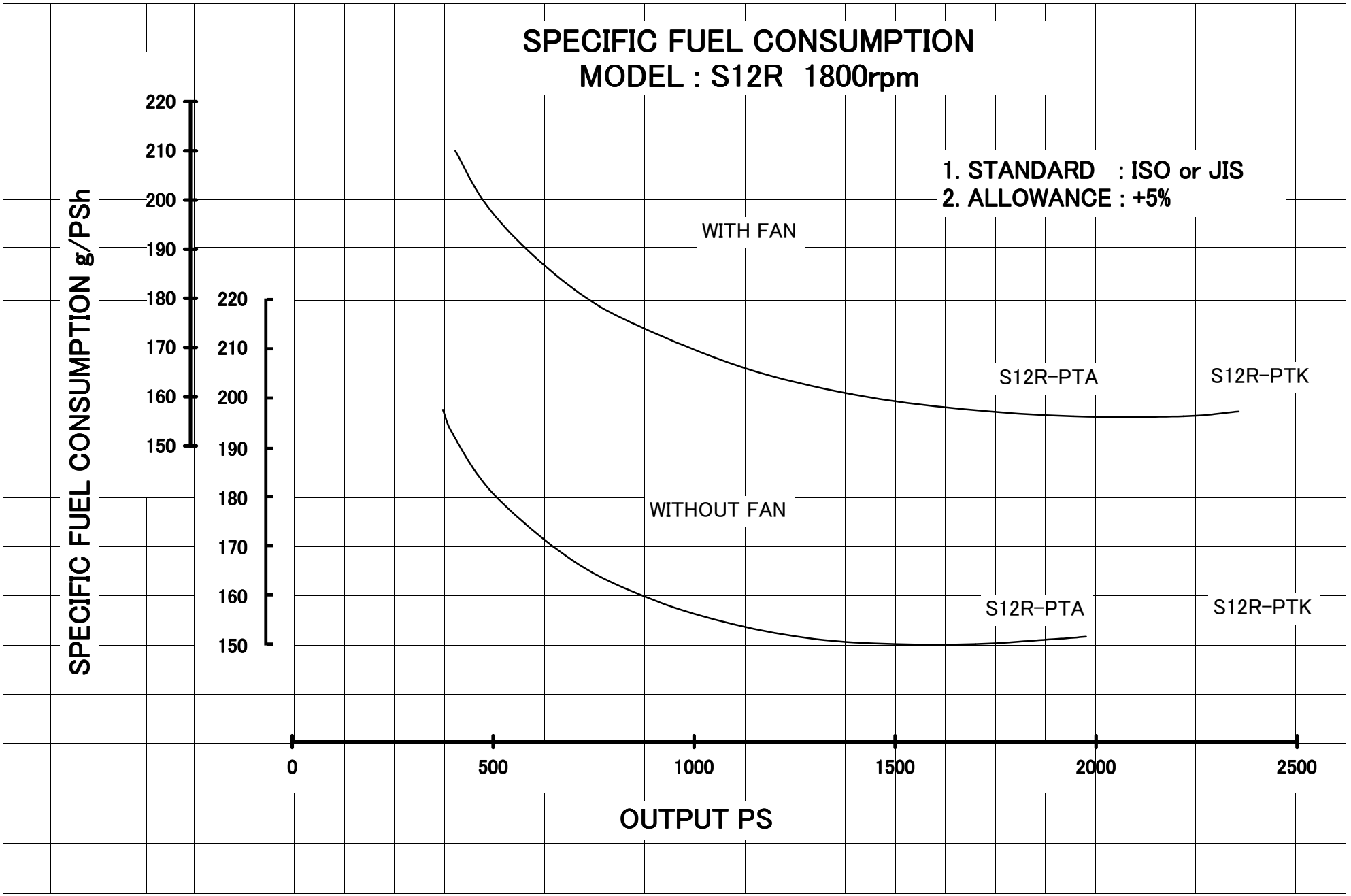

SPECIFIC FUEL CONSUMPTION
MODEL : S6R2 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
S6R2-PTA
S6R2-PTK
WITHOUT FAN
S6R2-PTA
S6R2-PTK
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
140
210
200
190
180
170
160
150
140
0
200
400
600
800
1000
1200
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S12R 1200rpm

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

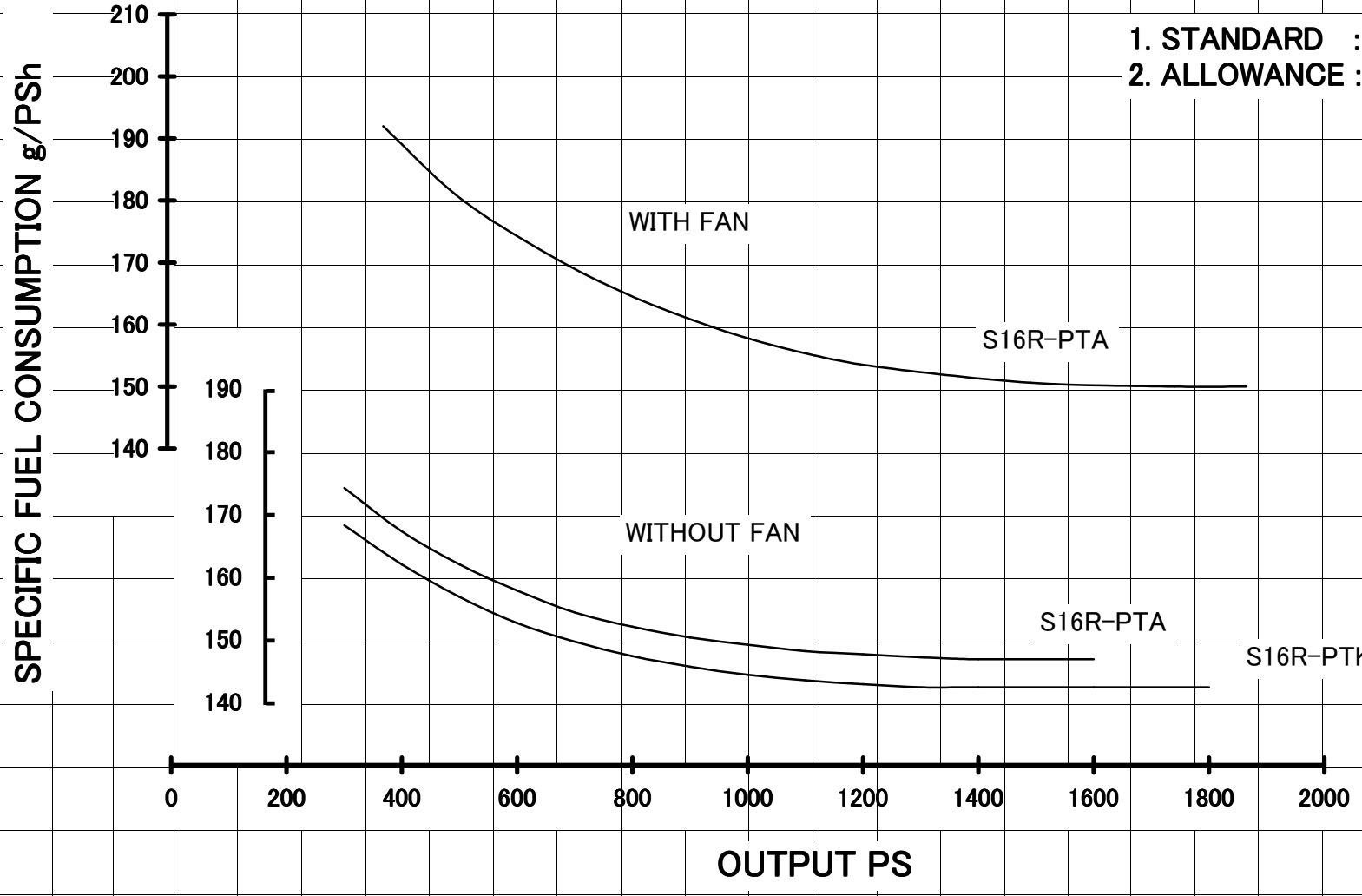


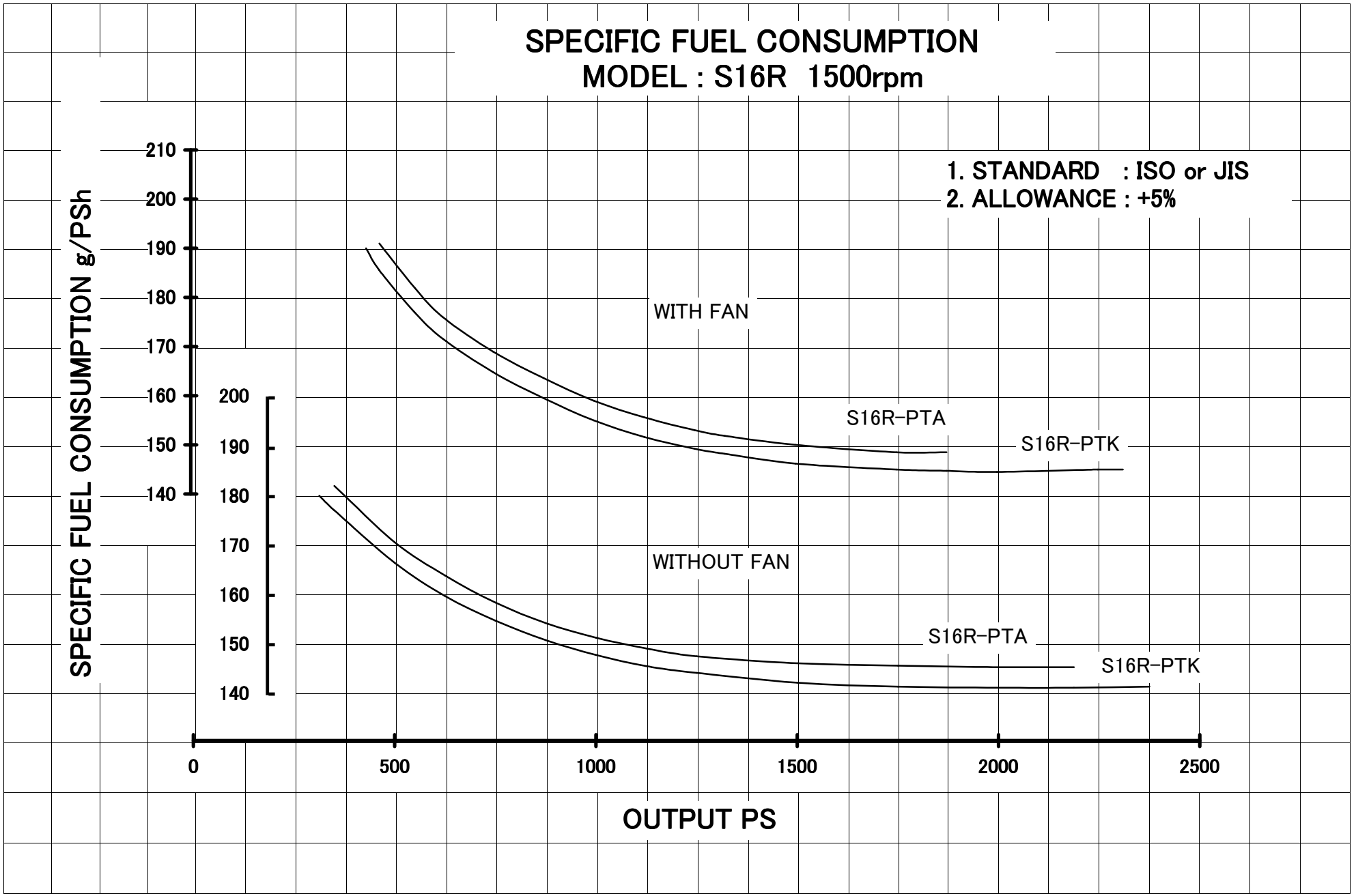

SPECIFIC FUEL CONSUMPTION
MODEL : S12R 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
S12R-PTA
S12R-PTK
WITHOUT FAN
S12R-PTA
S12R-PTK
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
140
200
190
180
170
160
150
140
0
200
400
600
800
1000
1200
1400
1600
1800
OUTPUT PS

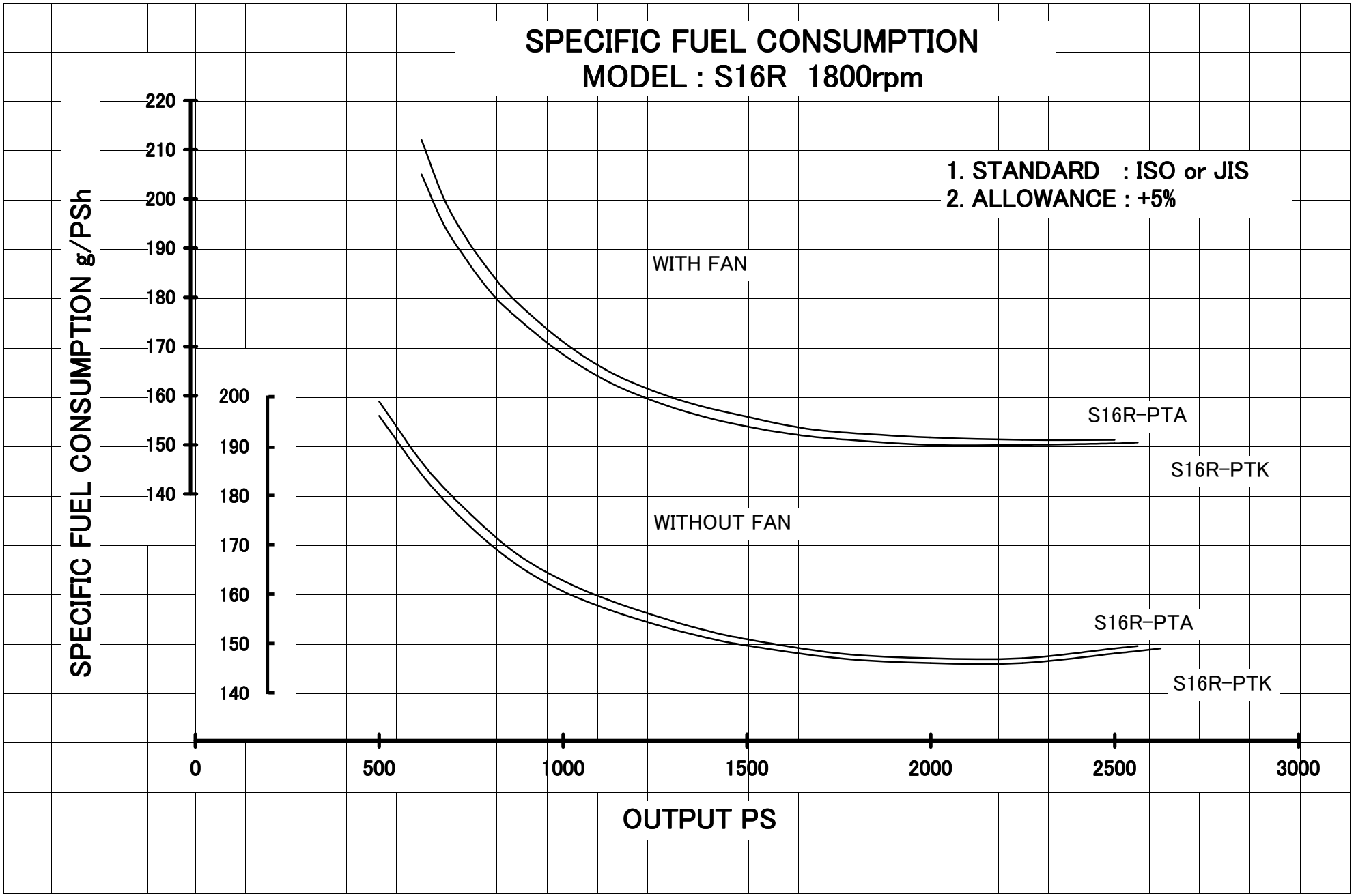

SPECIFIC FUEL CONSUMPTION
MODEL : S12R 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
WITH FAN
S12R-PTA
S12R-PTK
WITHOUT FAN
S12R-PTA
S12R-PTK
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
220
210
200
190
180
170
160
150
0
500
1000
1500
2000
2500
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S16R 1200rpm

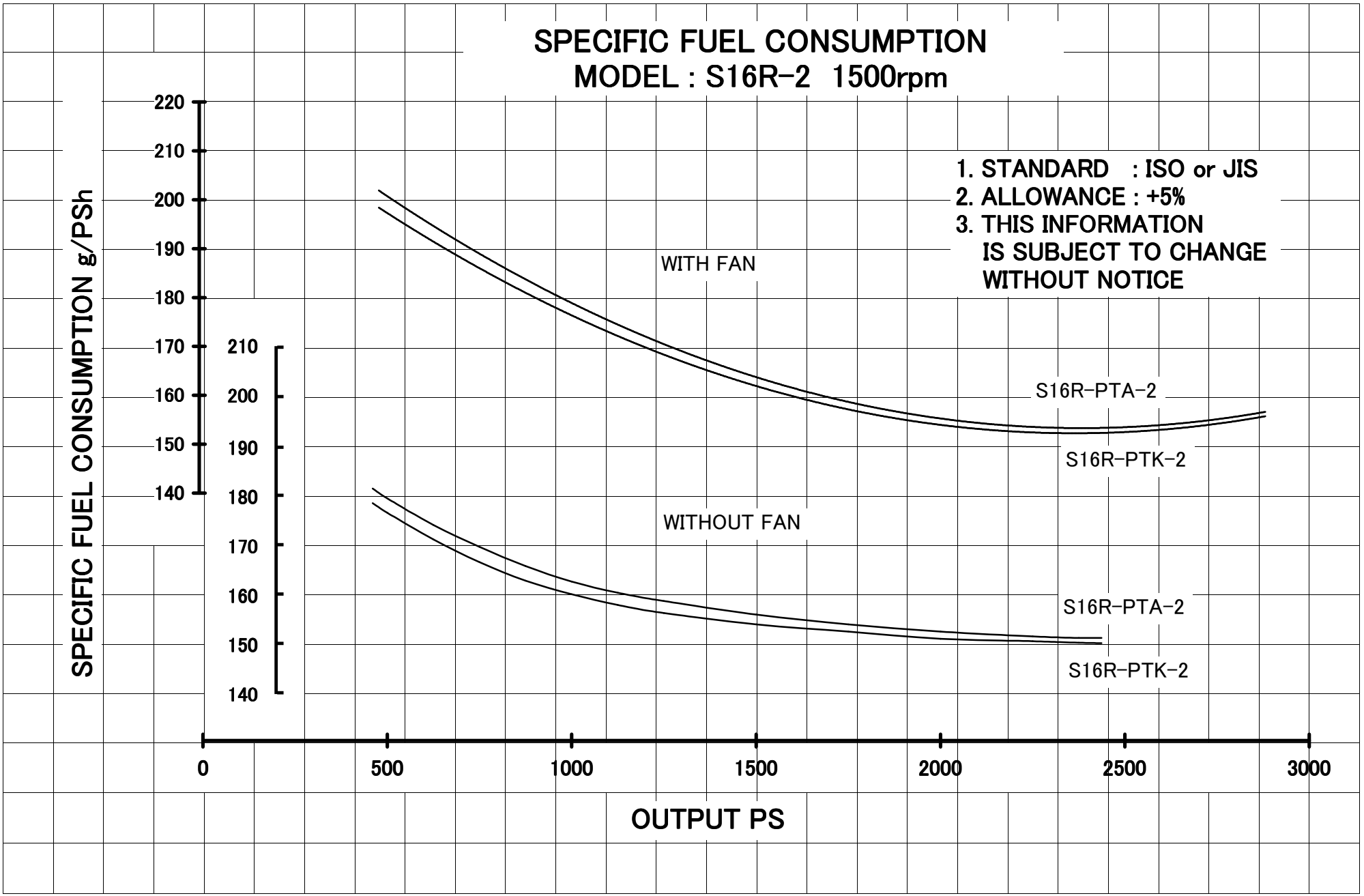
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%



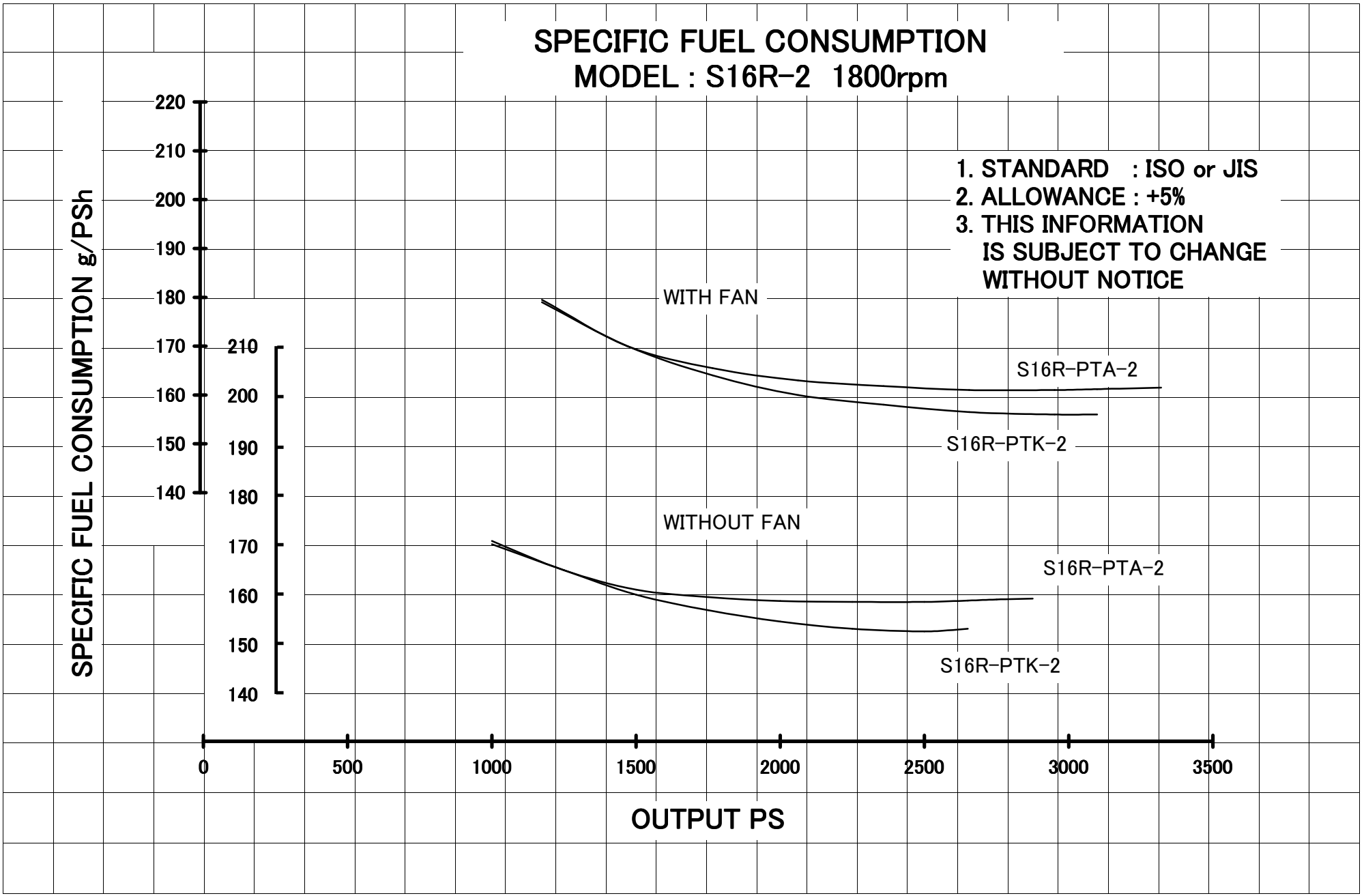

SPECIFIC FUEL CONSUMPTION
MODEL : S16R 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
210
200
190
180
170
160
150
140
WITH FAN
S16R-PTA
S16R-PTK
200
190
180
170
160
150
140
WITHOUT FAN
S16R-PTA
S16R-PTK
0
500
1000
1500
2000
2500
OUTPUT PS

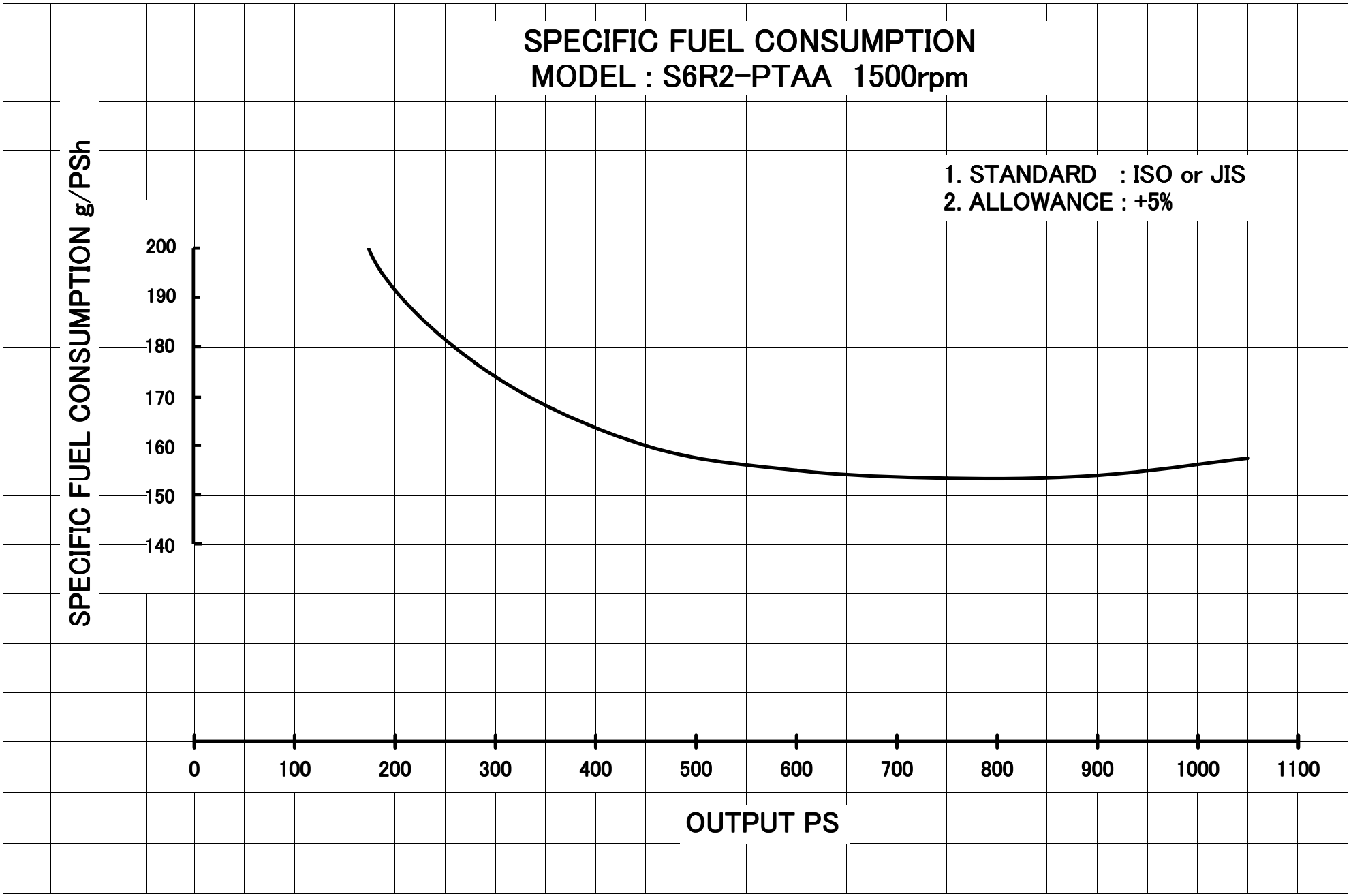

SPECIFIC FUEL CONSUMPTION
MODEL : S16R 1800rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
220
210
200
190
180
170
160
150
140
200
190
180
170
160
150
140
WITH FAN
S16R-PTA
S16R-PTK
WITHOUT FAN
S16R-PTA
S16R-PTK
0
500
1000
1500
2000
2500
3000
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S16R-2 1500rpm



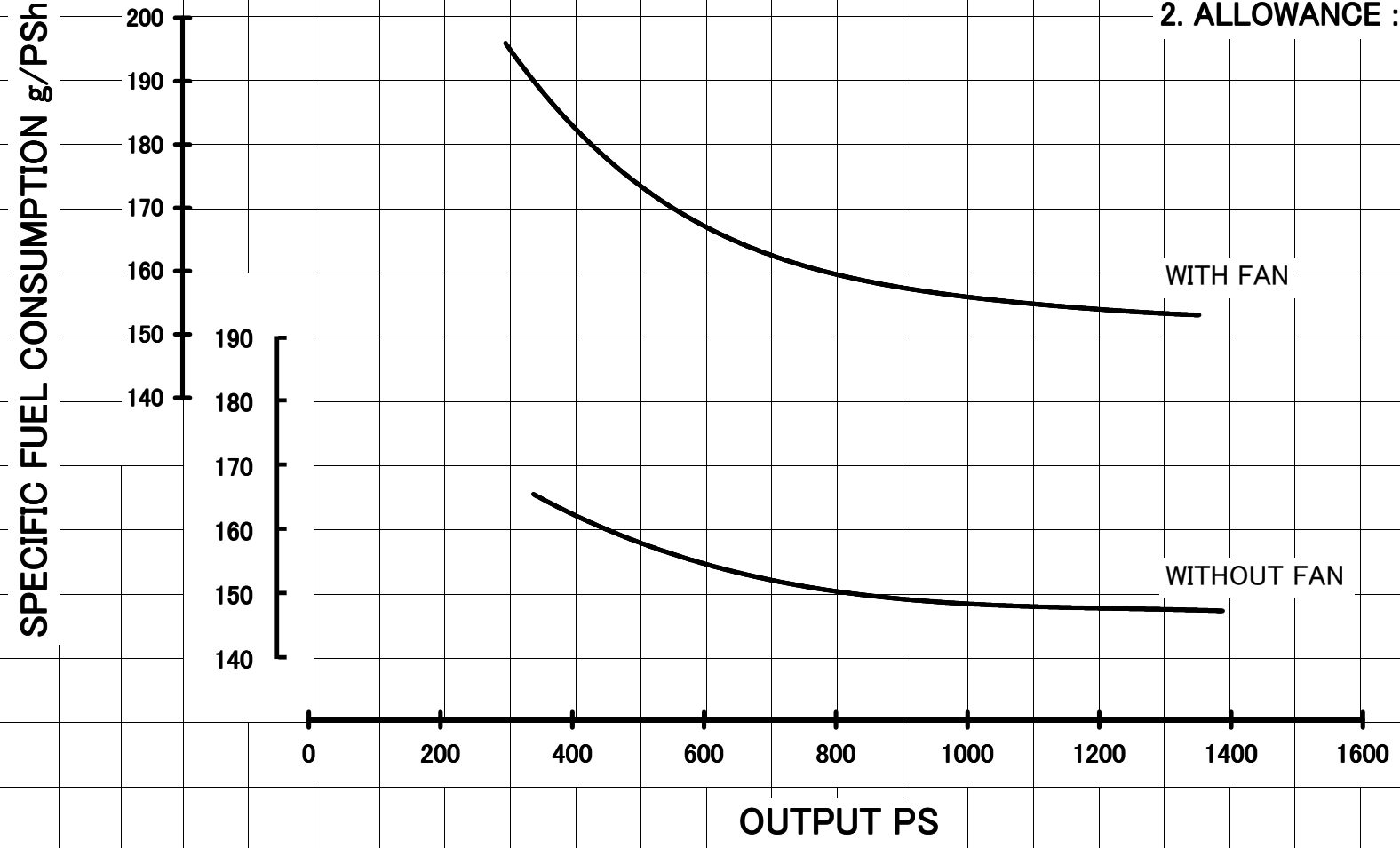
SPECIFIC FUEL CONSUMPTION
MODEL : S16R-2 1800rpm



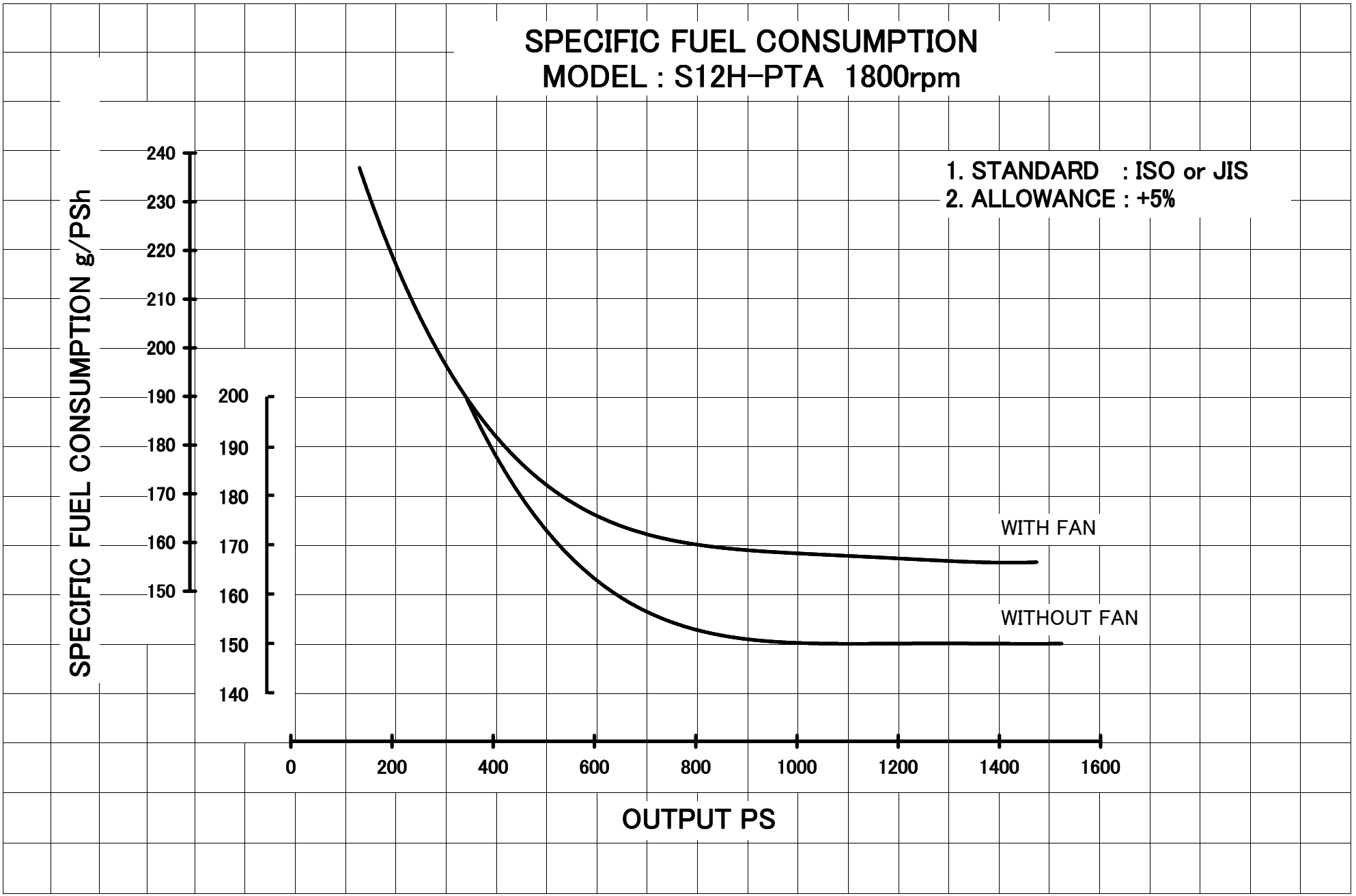

SPECIFIC FUEL CONSUMPTION
MODEL : S6R2-PTAA 1500rpm
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%
SPECIFIC FUEL CONSUMPTION g/PSh
200
190
180
170
160
150
140
0
100
200
300
400
500
600
700
800
900
1000
1100
OUTPUT PS

SPECIFIC FUEL CONSUMPTION
MODEL : S12H-PTA 1500rpm

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

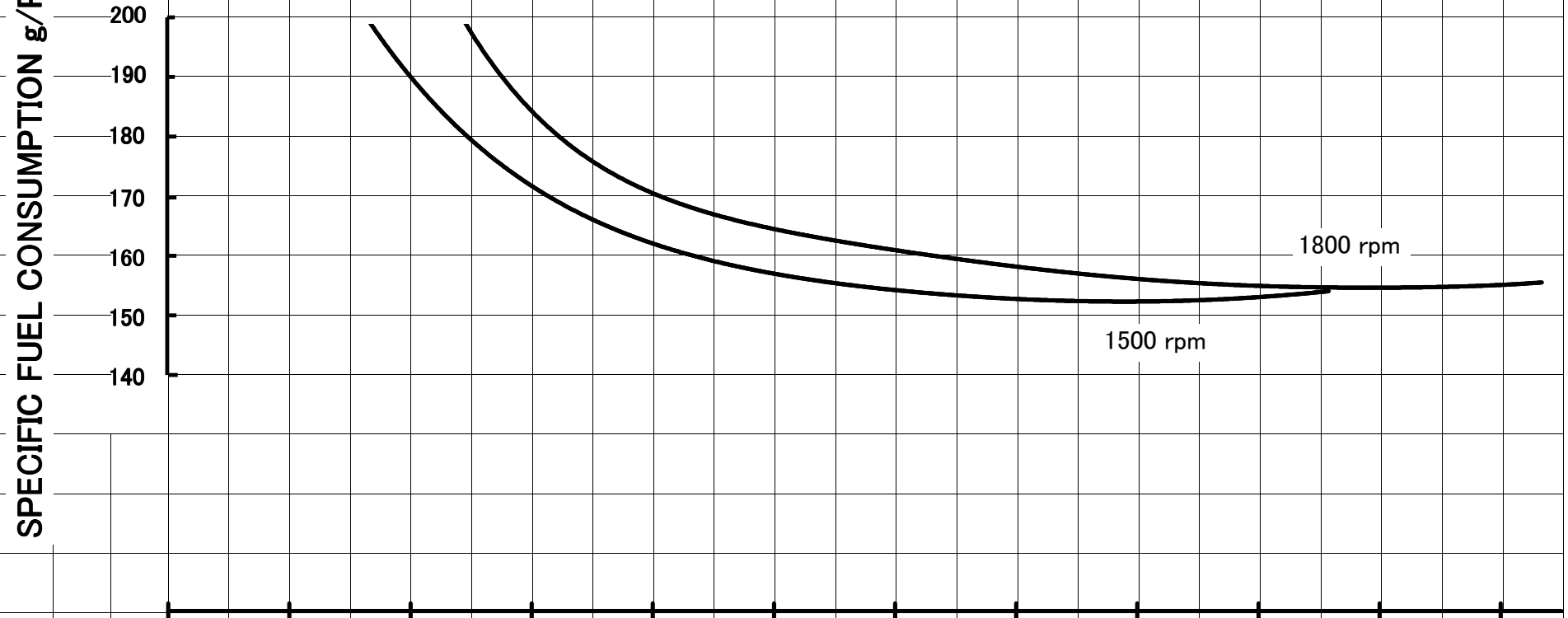


SPECIFIC FUEL CONSUMPTION
MODEL : S12H-PTA 1800rpm



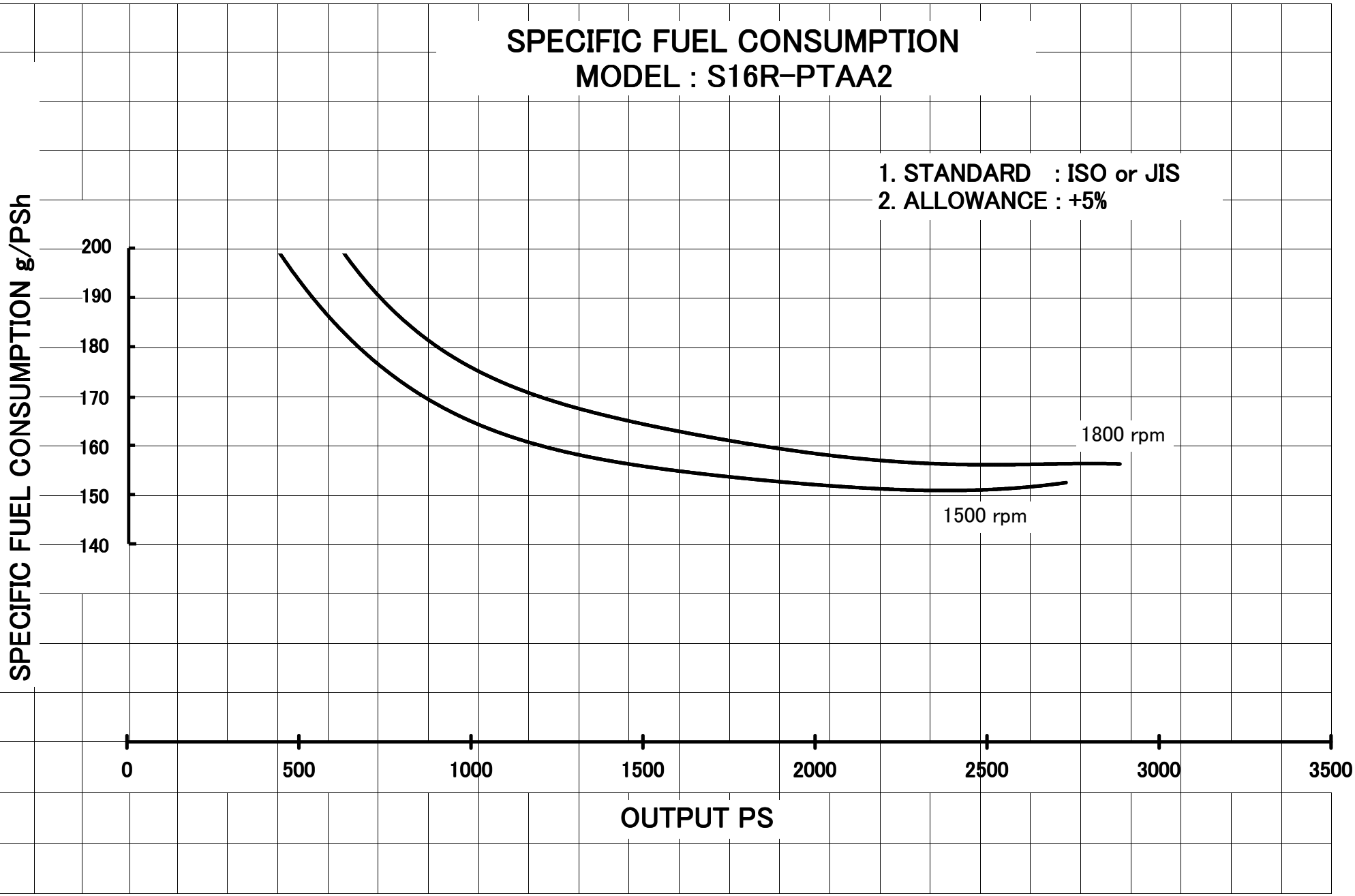
SPECIFIC FUEL CONSUMPTION
MODEL : S12R-PTAA2

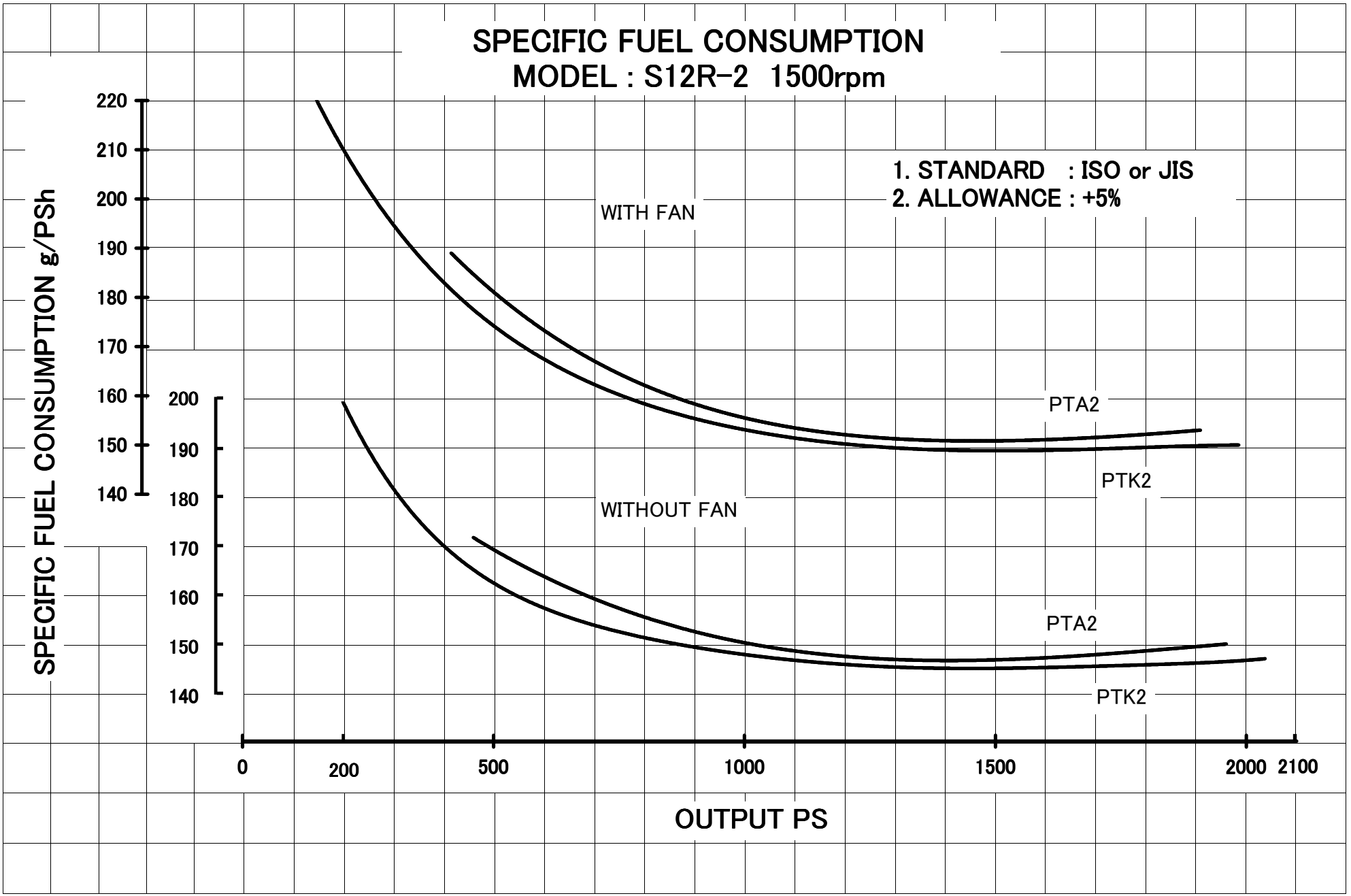
1. STANDARD : ISO or JIS
2. ALLOWANCE : +5%

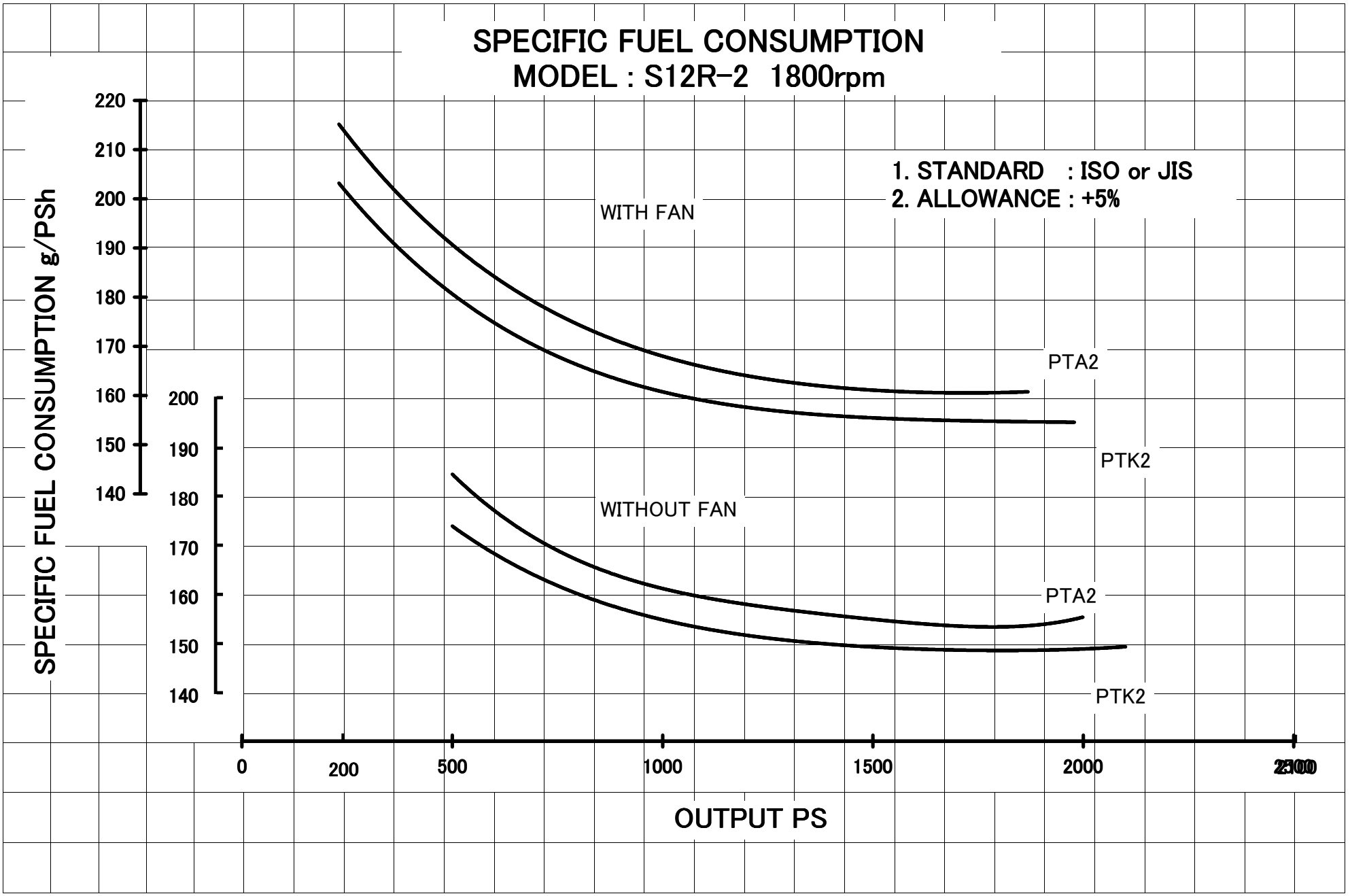


SPECIFIC FUEL CONSUMPTION
MODEL : S16R-PTAA2

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