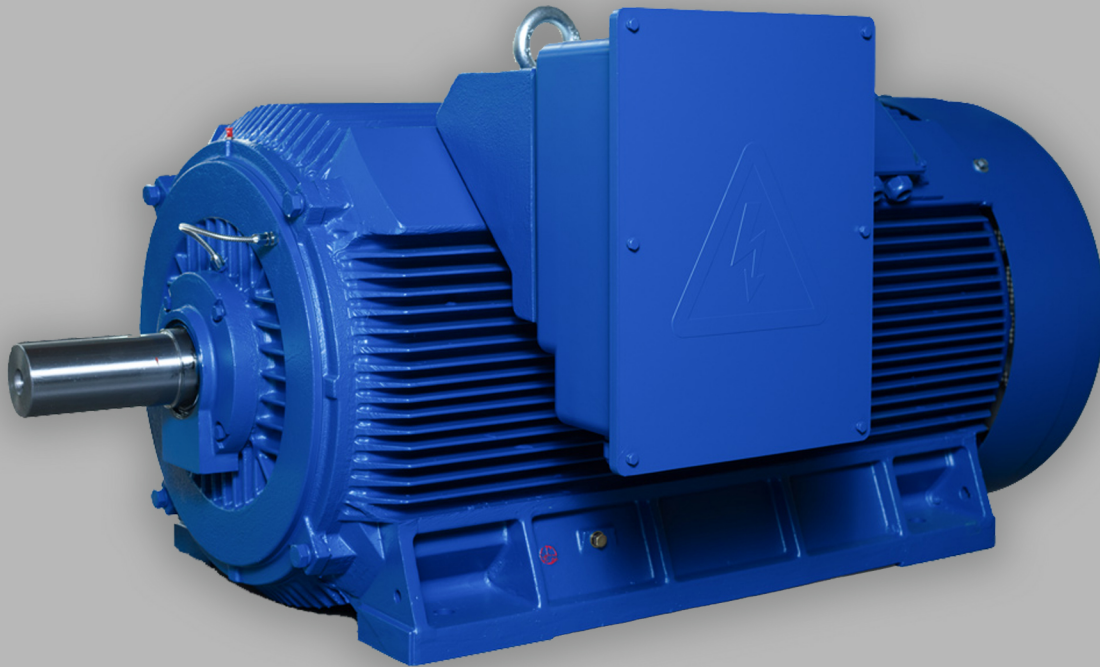


# Y2

SERIES HIGH VOLTAGE THREE PHASE ASYNCHRONOUS INDUCTION MOTOR



## PRODUCT INTRODUCTION

Y2 series high voltage motors are totally enclosed squirrel-cage motors. The motors are manufactured with protection class IP54, cooling method IC411, insulation class F, and mounting arrangement IMB3. The rated voltage is 6kv or 10KV.

This series motors are designed with cast iron frame, which has small size and compact structure. The motors have good features of high efficiency, low noise, low vibration, reliable performance, easy installation and maintenance. It is widely applied to drive various machinery, such as compressor, ventilator, pump, and crusher. The motors can also be used as prime mover in petrochemical, medicine, mining fields and even in harsh environmental conditions.

## SPECIFICATION

Frame size: H355-560mm (6kv) H450-560mm(10kv)

Rated power: 160kw-1600kw(6kv) 220kw-1400kw(10kv)

Voltage and frequency: 6kv/ 50Hz 10kv/50Hz

Degrees of protections: IP54

Degrees of insulation/Temperature rise: F

Installation Method: B3

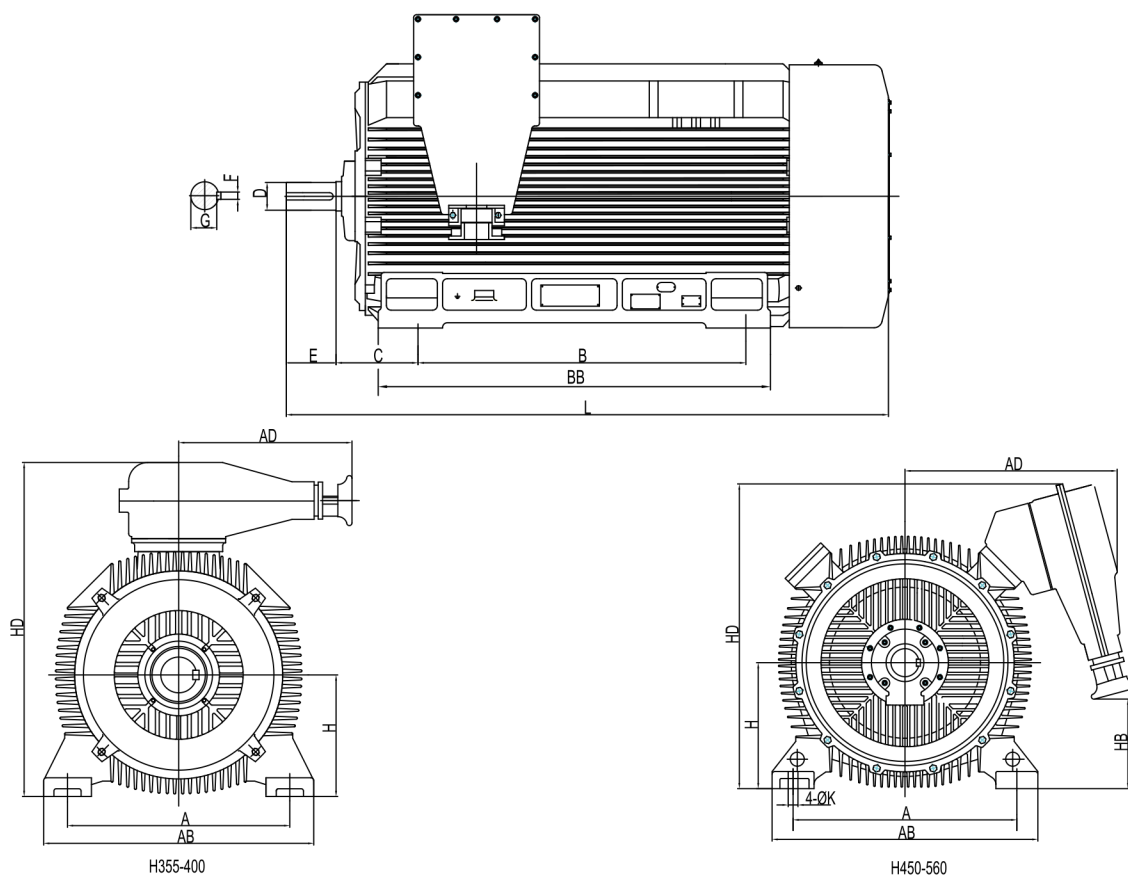
Ambient temperature: -15°C~+40°C

Relative humidity should be less than 90%

Altitude should be lower than 1000 m above sea level

Cooling Method: IC411

## Y2 Series High Voltage Three Phase Asynchronous Induction Motor(6kv)



Frame	Pole	A	B	C	D	E	F	G	H	K	AB	AD	BB	HB	HD	L
355	2	630	900	254	75	140	20	67.5	355	28	790	860	1110	210	1250	2000
355	4 6	630	900	254	100	210	28	90	355	28	790	860	1110	210	1250	2000
400	2	710	1000	280	85	170	22	76	400	35	870	860	1200	290	1340	2200
400	4 6 8	710	1000	280	110	210	28	100	400	35	870	860	1200	290	1340	2200
450	2	800	1120	280	95	170	25	86	450	35	950	930	1340	390	1340	2310
450	4	800	1120	280	120	210	32	109	450	35	950	930	1340	390	1340	2310
450	6 8	800	1120	280	130	250	32	119	450	35	950	930	1340	390	1340	2310
500	2	900	1250	315	110	210	28	100	500	42	1080	970	1490	470	1420	2610
500	4	900	1250	315	130	250	32	119	500	42	1080	970	1490	470	1420	2610
500	6 8	900	1250	315	140	250	36	128	500	42	1080	970	1490	470	1420	2610
560	2	1000	1400	355 (530)	130	250	32	119	560	42	1180	1030	1680	590	1480	2900
560	4	1000	1400	355	150	250	36	138	560	42	1180	1030	1680	590	1480	2900
560	6 8	1000	1400	355	160	300	40	147	560	42	1180	1030	1680	590	1480	2900

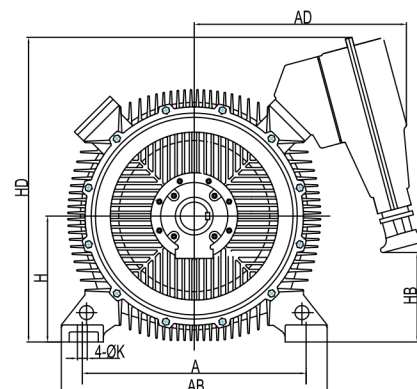
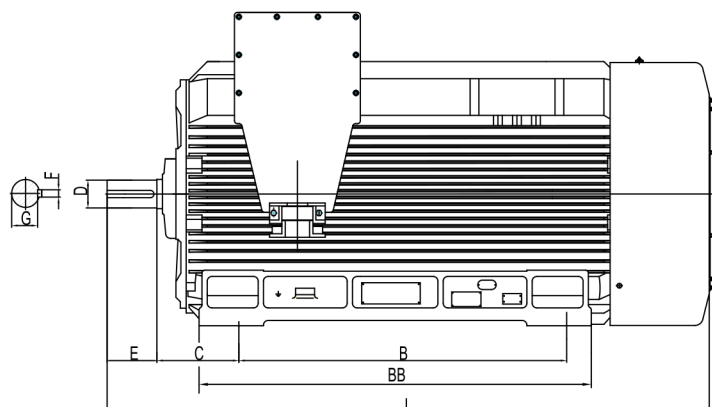
Note: C size of plain bearing motor is adopted (530)

TYPE	kW	A	r/min	%	cos $\phi$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	$\frac{T_{max}}{T_n}$	mm/s	dB (A)	G.m <sup>2</sup>	kg
Y2-3551-2	185	22.6	2985	93.9	0.84	0.7	7.0	2	2.8	109	8	2035
Y2-3552-2	200	24.4	2985	94.0	0.84	0.7	7.0	2	2.8	109	8.5	2075
Y2-3553-2	220	26.8	2985	94.2	0.84	0.7	7.0	2	2.8	109	9.5	2160
Y2-3554-2	250	30.3	2985	94.4	0.84	0.7	7.0	2	2.8	111	10	2215
Y2-3555-2	280	33.1	2985	94.6	0.86	0.7	7.0	2	2.8	111	11	2280
Y2-4001-2	315	37.2	2985	94.8	0.86	0.7	7.0	2	2.8	111	17	2630
Y2-4002-2	355	41.9	2985	94.9	0.86	0.7	7.0	2	2.8	111	18	2700
Y2-4003-2	400	47.1	2985	95.1	0.86	0.7	7.0	2	2.8	111	19.5	2830
Y2-4004-2	450	52.9	2985	95.2	0.86	0.7	7.0	2	2.8	111	21	2920
Y2-4501-2	500	58.0	2985	95.3	0.87	0.7	7.0	2	2.8	111	22	3200
Y2-4502-2	560	64.9	2985	95.4	0.87	0.7	7.0	2	2.8	112	24	3300
Y2-4503-2	630	73.0	2985	95.5	0.87	0.7	7.0	2	2.8	112	27	3500
Y2-4504-2	710	82.1	2985	95.7	0.87	0.7	7.0	2	2.8	112	30	3600
Y2-5001-2	800	91.5	2985	95.6	0.88	0.7	7.0	2	2.8	112	61	5360
Y2-5002-2	900	103	2985	95.7	0.88	0.7	7.0	2	2.8	112	65	5500
Y2-5003-2	1000	114	2985	95.9	0.88	0.7	7.0	2	2.8	112	69	5640
Y2-5004-2	1120	128	2985	96.0	0.88	0.7	7.0	2	2.8	113	75	5900
Y2-5601-2	1250	141	2985	96.1	0.89	0.7	7.0	2	2.8	113	111	5800
Y2-5602-2	1400	157	2985	96.3	0.89	0.7	7.0	2	2.8	113	119	5860
Y2-5603-2	1600	179	2985	96.5	0.89	0.7	7.0	2	2.8	113	127	5930
Y2-3551-4	185	22.6	1488	93.7	0.84	0.8	6.5	2	2.8	106	19	2120
Y2-3552-4	200	24.4	1488	93.9	0.84	0.8	6.5	2	2.8	106	21.5	2220
Y2-3553-4	220	26.8	1488	94.1	0.84	0.8	6.5	2	2.8	106	23	2290
Y2-3554-4	250	30.4	1488	94.3	0.84	0.8	6.5	2	2.8	108	24.5	2340
Y2-3555-4	280	33.9	1488	94.5	0.84	0.8	6.5	2	2.8	108	25.5	2400
Y2-4001-4	315	37.7	1488	94.6	0.85	0.8	6.5	2	2.8	108	32	2970
Y2-4002-4	355	42.4	1488	94.8	0.85	0.8	6.5	2	2.8	108	34	3080
Y2-4003-4	400	47.7	1488	95.0	0.85	0.8	6.5	2	2.8	108	37	3170
Y2-4004-4	450	53.5	1488	95.2	0.85	0.8	6.5	2	2.8	108	39	3250
Y2-4501-4	500	58.7	1488	95.3	0.86	0.8	6.5	2	2.8	108	52	3500
Y2-4502-4	560	65.7	1488	95.4	0.86	0.8	6.5	2	2.8	111	58	3700
Y2-4503-4	630	73.8	1488	95.5	0.86	0.8	6.5	2	2.8	111	65	3950
Y2-4504-4	710	83.1	1488	95.6	0.86	0.8	6.5	2	2.8	111	73	4200
Y2-5001-4	800	93.5	1488	95.7	0.86	0.8	6.5	2	2.8	111	130	5350
Y2-5002-4	900	105	1488	95.8	0.86	0.8	6.5	2	2.8	111	141	5540
Y2-5003-4	1000	117	1488	95.9	0.86	0.8	6.5	2	2.8	111	148	5700
Y2-5004-4	1120	131	1488	96.0	0.86	0.8	6.5	2	2.8	113	156	5800
Y2-5601-4	1250	144	1488	96.1	0.87	0.7	6.5	2	2.8	113	252	5900

TYPE	kW	A	r/min	%	cos $\phi$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	$\frac{T_{max}}{T_n}$	mm/s	dB (A)	G.m <sup>2</sup>	kg
Y2-5602-4	1400	161	1488	96.2	0.87	0.7	6.5	2	2.8	113	272	5950
Y2-5603-4	1600	184	1488	96.4	0.87	0.7	6.5	2	2.8	113	305	6020
Y2-3553-6	160	20.6	987	96.4	0.80	0.8	6.0	2	2.8	102	26	2255
Y2-3554-6	185	23.8	987	93.5	0.80	0.8	6.0	2	2.8	102	28	2345
Y2-3555-6	200	25.7	987	93.6	0.80	0.8	6.0	2	2.8	102	31	2440
Y2-4001-6	220	27.5	987	93.8	0.82	0.8	6.0	2	2.8	102	47	3010
Y2-4002-6	250	31.2	987	93.9	0.82	0.8	6.0	2	2.8	105	50	3110
Y2-4003-6	280	34.9	987	94.1	0.82	0.8	6.0	2	2.8	105	53	3200
Y2-4004-6	315	39.2	987	94.3	0.82	0.8	6.0	2	2.8	105	57	3250
Y2-4501-6	355	43.6	987	94.5	0.83	0.8	6.0	2	2.8	105	64	3600
Y2-4502-6	400	49.0	987	94.6	0.83	0.8	6.0	2	2.8	105	73	3800
Y2-4503-6	450	55.1	987	94.7	0.83	0.8	6.0	2	2.8	105	81	4000
Y2-4504-6	500	61.1	987	94.9	0.83	0.8	6.0	2	2.8	105	90	4200
Y2-5001-6	560	68.3	987	95.1	0.83	0.8	6.0	2	2.8	108	177	5370
Y2-5002-6	630	76.7	987	95.2	0.83	0.8	6.0	2	2.8	108	184	5500
Y2-5003-6	710	86.4	987	95.3	0.83	0.8	6.0	2	2.8	108	191	5630
Y2-5004-6	800	97.2	987	95.4	0.83	0.8	6.0	2	2.8	108	202	5830
Y2-5601-6	900	108	987	95.6	0.84	0.7	6.0	2	2.8	108	388	5930
Y2-5602-6	1000	120	987	95.7	0.84	0.7	6.0	2	2.8	108	402	6020
Y2-5603-6	1120	134	987	95.8	0.84	0.7	6.0	2	2.8	110	423	6100
Y2-5604-6	1250	149	987	95.9	0.84	0.7	6.0	2	2.8	110	450	6150
Y2-4001-8	160	21.7	742	93.2	0.76	0.8	5.5	2	2.8	99	50	3020
Y2-4002-8	185	25.1	742	93.3	0.76	0.8	5.5	2	2.8	99	52	3090
Y2-4003-8	200	26.7	742	93.5	0.77	0.8	5.5	2	2.8	99	56	3150
Y2-4004-8	220	29.3	742	93.7	0.77	0.8	5.5	2	2.8	99	61	3260
Y2-4501-8	250	32.8	742	93.9	0.78	0.8	5.5	2	2.8	102	65	3600
Y2-4502-8	280	36.7	742	94.1	0.78	0.8	5.5	2	2.8	102	73	3800
Y2-4503-8	315	41.3	742	94.2	0.78	0.8	5.5	2	2.8	102	82	4000
Y2-4504-8	355	46.4	742	94.4	0.78	0.8	5.5	2	2.8	102	91	4200
Y2-5001-8	400	51.6	742	94.5	0.80	0.8	5.5	2	2.8	102	177	5380
Y2-5002-8	450	57.9	742	94.6	0.80	0.8	5.5	2	2.8	102	184	5510
Y2-5003-8	500	63.4	742	94.8	0.80	0.8	5.5	2	2.8	102	191	5640
Y2-5004-8	560	71.0	742	94.9	0.80	0.8	5.5	2	2.8	105	202	5850
Y2-5601-8	630	78.7	742	95.1	0.81	0.7	5.5	2	2.8	105	480	6200
Y2-5602-8	710	88.5	742	95.3	0.81	0.7	5.5	2	2.8	105	510	6240
Y2-5603-8	800	99.6	742	95.4	0.81	0.7	5.5	2	2.8	105	535	6320
Y2-5604-8	900	112	742	95.6	0.81	0.7	5.5	2	2.8	105	560	6400



## Y2 Series High Voltage Three Phase Asynchronous Induction Motor(10kv)



H450-560

Frame	Pole	A	B	C	D	E	F	G	H	K	AB	AD	BB	HB	HD	L
450	2	800	1120	280	95	170	25	86	450	35	950	930	1340	390	1250	2310
450	4	800	1120	280	120	210	32	109	450	35	950	930	1340	390	1250	2310
450	6-8	800	1120	280	130	250	32	119	450	35	950	930	1340	390	1250	2310
500	2	900	1250	315	110	210	28	100	500	42	1080	970	1490	470	1320	2610
500	4	900	1250	315	130	250	32	119	500	42	1080	970	1490	470	1320	2610
500	6-8	900	1250	315	140	250	36	128	500	42	1080	970	1490	470	1320	2610
560	2	1000	1400	355 (530)	130	250	32	119	560	42	1180	1030	1680	590	1450	2900
560	4	1000	1400	355	150	250	36	138	560	42	1180	1030	1680	590	1450	2900
560	6-8	1000	1400	355	160	300	40	147	560	42	1180	1030	1680	590	1450	2900

Note: C size of plain bearing motor is adopted(530)

TYPE	kW	A	r/min	%	cos $\phi$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	$\frac{T_{max}}{T_n}$	mm/s	dB(A)	G.m <sup>2</sup>	kg
Y2-4501-2	220	16.3	2985	92.8	0.84	0.7	7.0	2	2.8	111	17.0	2730
Y2-4502-2	250	18.5	2985	93.0	0.84	0.7	7.0	2	2.8	111	18.0	2800
Y2-4503-2	280	20.2	2985	93.1	0.86	0.7	7.0	2	2.8	111	19.5	2930
Y2-4504-2	315	22.7	2985	93.3	0.86	0.7	7.0	2	2.8	111	21.0	3120
Y2-4505-2	355	25.5	2985	93.5	0.86	0.7	7.0	2	2.8	111	22.0	3200
Y2-4506-2	400	28.6	2985	93.8	0.86	0.7	7.0	2	2.8	111	24.0	3300
Y2-4507-2	450	32.2	2985	93.9	0.86	0.7	7.0	2	2.8	111	27.0	3500
Y2-4508-2	500	35.3	2985	94.0	0.87	0.7	7.0	2	2.8	111	30.0	3600
Y2-5001-2	560	39.5	2985	94.2	0.87	0.7	7.0	2	2.8	112	48.0	5050
Y2-5002-2	630	44.3	2985	94.4	0.87	0.7	7.0	2	2.8	112	54.0	5200
Y2-5003-2	710	49.8	2985	94.6	0.87	0.7	7.0	2	2.8	112	61.0	5360
Y2-5004-2	800	55.4	2985	94.8	0.88	0.7	7.0	2	2.8	112	65.0	5500
Y2-5005-2	900	62.2	2985	95.0	0.88	0.7	7.0	2	2.8	112	69.0	5640
Y2-5601-2	1000	69.0	2985	95.1	0.88	0.7	7.0	2	2.8	112	75.0	5700
Y2-5602-2	1120	76.2	2985	95.3	0.89	0.7	7.0	2	2.8	112	111	5800
Y2-5603-2	1250	84.9	2985	95.5	0.89	0.7	7.0	2	2.8	112	119	5860
Y2-5604-2	1400	94.9	2985	95.7	0.89	0.7	7.0	2	2.8	112	127	5930
Y2-4501-4	220	16.3	1488	92.7	0.84	0.8	6.5	2	2.8	108	21.0	2810
Y2-4502-4	250	18.5	1488	92.9	0.84	0.8	6.5	2	2.8	108	34.0	3000
Y2-4503-4	280	20.7	1488	93.0	0.84	0.8	6.5	2	2.8	108	38.0	3160
Y2-4504-4	315	22.9	1488	93.3	0.85	0.8	6.5	2	2.8	108	43.0	3350
Y2-4505-4	355	25.8	1488	93.4	0.85	0.8	6.5	2	2.8	108	52.0	3500
Y2-4506-4	400	29.0	1488	93.6	0.85	0.8	6.5	2	2.8	108	58.0	3700
Y2-4507-4	450	32.6	1488	93.8	0.85	0.8	6.5	2	2.8	108	65.0	3950
Y2-4508-4	500	35.7	1488	94.0	0.86	0.8	6.5	2	2.8	108	73.0	4200
Y2-5001-4	560	40.0	1488	94.1	0.86	0.8	6.5	2	2.8	111	122	5130
Y2-5002-4	630	44.9	1488	94.3	0.86	0.8	6.5	2	2.8	111	130	5350
Y2-5003-4	710	50.4	1488	94.5	0.86	0.8	6.5	2	2.8	111	141	5540
Y2-5004-4	800	56.0	1488	94.8	0.87	0.8	6.5	2	2.8	111	148	5700
Y2-5005-4	900	62.9	1488	95.0	0.87	0.8	6.5	2	2.8	111	156	5800
Y2-5601-4	1000	69.8	1488	95.1	0.87	0.8	6.5	2	2.8	111	230	5850
Y2-5602-4	1120	77.2	1488	95.2	0.88	0.8	6.5	2	2.8	111	252	5900
Y2-5603-4	1250	86.0	1488	95.4	0.88	0.8	6.5	2	2.8	113	272	5950
Y2-5604-4	1400	96.1	1488	95.6	0.88	0.8	6.5	2	2.8	113	305	6020
Y2-4504-6	220	16.7	987	92.5	0.82	0.8	6.0	2	2.8	105	56.0	3400
Y2-4505-6	250	19.0	987	92.7	0.82	0.8	6.0	2	2.8	105	64.0	3600
Y2-4506-6	280	21.2	987	92.9	0.82	0.8	6.0	2	2.8	105	73.0	3800
Y2-4507-6	315	23.8	987	93.1	0.82	0.8	6.0	2	2.8	105	81.0	4000
Y2-4508-6	355	26.8	987	93.3	0.82	0.8	6.0	2	2.8	105	90.0	4200
Y2-5001-6	400	30.1	987	93.5	0.82	0.8	6.0	2	2.8	105	170	5250
Y2-5002-6	450	33.4	987	93.7	0.83	0.8	6.0	2	2.8	105	177	5370
Y2-5003-6	500	37.0	987	93.9	0.83	0.8	6.0	2	2.8	105	184	5500
Y2-5004-6	560	41.4	987	94.1	0.83	0.8	6.0	2	2.8	108	191	5630
Y2-5005-6	630	46.5	987	94.3	0.83	0.8	6.0	2	2.8	108	202	5830
Y2-5601-6	710	52.3	987	94.5	0.83	0.8	6.0	2	2.8	108	370	5840
Y2-5602-6	800	58.8	987	94.7	0.83	0.8	6.0	2	2.8	108	388	5930
Y2-5603-6	900	65.2	987	94.9	0.84	0.7	6.0	2	2.8	108	402	6020
Y2-5604-6	1000	72.3	987	95.1	0.84	0.7	6.0	2	2.8	108	423	6100
Y2-5605-6	1120	80.8	987	95.3	0.84	0.7	6.0	2	2.8	108	450	6150
Y2-4506-8	220	18.3	742	92.4	0.75	0.8	5.5	2	2.8	102	73.0	3800
Y2-4507-8	250	20.8	742	92.6	0.75	0.8	5.5	2	2.8	102	82.0	4000
Y2-4508-8	280	22.6	742	92.8	0.77	0.8	5.5	2	2.8	102	91.0	4200
Y2-5002-8	315	25.4	742	93.0	0.77	0.8	5.5	2	2.8	102	170	5250
Y2-5003-8	355	28.6	742	93.2	0.77	0.8	5.5	2	2.8	102	177	5380
Y2-5004-8	400	31.3	742	93.4	0.79	0.8	5.5	2	2.8	102	184	5510
Y2-5005-8	450	35.2	742	93.5	0.79	0.8	5.5	2	2.8	102	191	5640
Y2-5601-8	500	39.0	742	93.7	0.79	0.8	5.5	2	2.8	105	450	6100
Y2-5602-8	560	43.6	742	93.9	0.79	0.8	5.5	2	2.8	105	480	6200
Y2-5603-8	630	48.3	742	94.1	0.8	0.7	5.5	2	2.8	105	510	6240
Y2-5604-8	710	54.3	742	94.3	0.8	0.7	5.5	2	2.8	105	535	6320
Y2-5605-8	800	61.1	742	94.5	0.8	0.7	5.5	2	2.8	105	560	6400