



RANGE SUMMARY

Introduction to . . . The VARTA TP Range



VARTA® pocket plate NiCd cells are suitable for industrial applications requiring proven reliability and the highest safety integrity. The TP range is optimised for applications covering discharges of 30 minutes to 180 minutes or more.

Typical TP battery applications include railway, UPS, marine, telecommunications, power and substations.

With over 100 years of experience in the design and manufacture of NiCd batteries, supported by an ethos of continuous improvement and technical development, EnerSys™ offers a world-leading range of solutions to suit varying applications.

Cost effectiveness, safety and durability make the VARTA TP range NiCd battery one of the most reliable and powerful systems on the market.

Features & Benefits

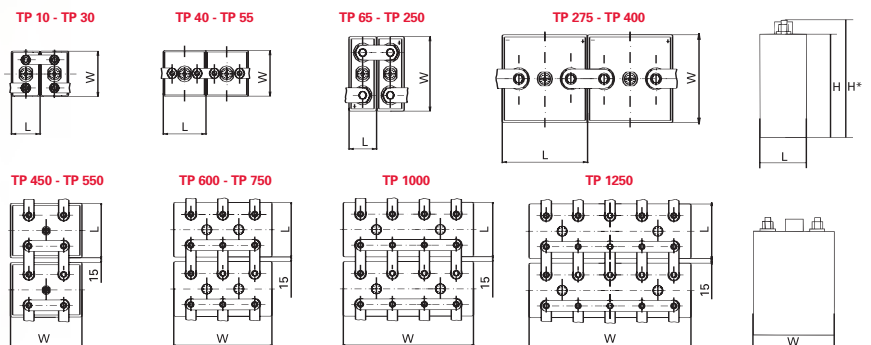
- Capacity Range: 10Ah - 1250Ah
- Recommended discharge time: 30 minutes to 180 minutes
- High final discharge voltage (1.15 V/cell) at a discharge rate of 5 hours with 0.2 C₅A
- Excellent resistance against electrical and mechanical stress
- No risks of terminal decomposition or sudden death due to the plate construction
- Operational temperature: - 40°C to + 50°C
- Proven long service life: 20 years in stationary cycling operations
- Long storage life
- Robust construction - hard-wearing and insensitive to faults in maintenance
- Generous electrolyte reserve - long maintenance interval
- Translucent plastic cases for visible electrolyte level
- Conforms to DIN 40771 and IEC60623/KM...P

General Specifications

Type*	Rated Capacity (Ah)	Nominal Dimensions						Weight				Terminal		
		Length		Width		Height		Without electrolyte		Total weight				
		mm	in	mm	in	mm	in	mm	in	kg	lbs	kg	lbs	
TP 10	10	46	1.8	85	3.3	167	6.6	187	7.4	0.71	1.6	1.03	2.3	M10 M
TP 18	18	46	1.8	85	3.3	237	9.3	257	10.1	0.92	2.0	1.41	3.1	M10 M
TP 24	24	46	1.8	85	3.3	237	9.3	257	10.1	1.20	2.6	1.59	3.5	M10 M
TP 30	30	46	1.8	85	3.3	237	9.3	257	10.1	1.35	3.0	1.72	3.8	M10 M
TP 40	40	85	3.3	85	3.3	237	9.3	257	10.1	1.88	4.1	2.76	6.1	M10 M
TP 48	48	85	3.3	85	3.3	237	9.3	257	10.1	2.05	4.5	2.82	6.2	M10 M
TP 55	55	85	3.3	85	3.3	237	9.3	257	10.1	2.30	5.1	2.97	6.5	M10 M
TP 65	65	53	2.1	134	5.3	364	14.3	392	15.4	3.56	7.8	4.85	10.7	M8 F
TP 75	75	53	2.1	134	5.3	364	14.3	392	15.4	3.78	8.3	5.00	11.0	M8 F
TP 90	90	69	2.7	134	5.3	364	14.3	392	15.4	4.36	9.6	6.18	13.6	M8 F
TP 110	110	69	2.7	134	5.3	364	14.3	392	15.4	4.94	10.9	6.51	14.4	M8 F
TP 125	125	70	2.8	164	6.6	364	14.3	392	15.4	5.61	12.4	7.67	16.9	M8 F
TP 140	140	70	2.8	164	6.6	364	14.3	392	15.4	6.04	13.3	7.84	17.3	M8 F
TP 165	165	108	4.3	164	6.6	364	14.3	392	15.4	6.92	15.3	10.61	23.4	M8 F
TP 185	185	108	4.3	164	6.6	364	14.3	392	15.4	7.50	16.5	10.91	24.1	M8 F
TP 200	200	108	4.3	164	6.6	364	14.3	392	15.4	8.27	18.2	11.17	24.6	M8 F
TP 230	230	108	4.3	164	6.6	364	14.3	392	15.4	8.82	19.4	11.62	25.6	M8 F
TP 250	250	108	4.3	164	6.6	364	14.3	392	15.4	9.62	21.2	12.22	26.9	M8 F
TP 275	275	164	6.6	158	6.2	364	14.3	392	15.4	11.20	24.7	16.30	35.9	M10 F
TP 300	300	164	6.6	158	6.2	364	14.3	392	15.4	11.50	25.4	16.50	36.4	M10 F
TP 315	315	164	6.6	158	6.2	364	14.3	392	15.4	12.20	26.9	17.00	37.5	M10 F
TP 340	340	164	6.6	158	6.2	364	14.3	392	15.4	13.00	28.7	17.50	38.6	M10 F
TP 355	355	164	6.6	158	6.2	364	14.3	392	15.4	13.70	30.2	18.00	39.7	M10 F
TP 380	380	164	6.6	158	6.2	364	14.3	392	15.4	14.40	31.7	18.50	40.8	M10 F
TP 400	400	164	6.6	158	6.2	364	14.3	392	15.4	15.10	33.3	18.90	41.7	M10 F
TP 450	450	176	6.9	246	9.7	382	15.0	408	16.1	20.00	44.1	27.30	60.2	M10 F
TP 500	500	176	6.9	246	9.7	382	15.0	408	16.1	21.40	46.7	28.30	62.4	M10 F
TP 520	520	176	6.9	246	9.7	382	15.0	408	16.1	22.00	48.5	29.10	64.2	M10 F
TP 550	550	176	6.9	246	9.7	382	15.0	408	16.1	22.40	49.4	29.30	64.6	M10 F
TP 600	600	176	6.9	368	14.4	382	15.0	408	16.1	27.00	59.5	40.70	89.7	M10 F
TP 675	675	176	6.9	368	14.4	382	15.0	408	16.1	29.50	65.0	41.90	92.4	M10 F
TP 750	750	176	6.9	368	14.4	382	15.0	408	16.1	32.00	70.5	43.10	95.0	M10 F
TP 1000	1000	176	6.9	448	17.6	382	15.0	408	16.1	42.80	94.3	56.00	123.5	M10 F
TP 1250	1250	176	6.9	558	22.0	382	15.0	408	16.1	52.40	115.5	68.90	151.9	M10 F

* Includes height over terminals

Battery Layout



Current (Amps) to 1.15V @ 20°C (68°F)

Type	Minutes				Hours									
	5	10	15	30	1	2	3	4	5	6	7	8	9	10
TP 10	8.00	7.40	6.60	6.20	5.10	3.70	2.86	2.32	2.00	1.85	1.60	1.42	1.27	1.16
TP 18	13.10	12.20	10.80	10.10	8.30	6.10	4.68	4.01	3.60	3.03	2.62	2.32	2.08	1.89
TP 24	17.50	16.20	14.40	13.50	11.00	8.10	6.24	5.34	4.80	4.04	3.50	3.09	2.77	2.52
TP 30	21.90	20.30	18.00	16.90	13.80	10.10	7.80	6.70	6.00	5.05	4.37	3.86	3.47	3.15
TP 40	30.80	27.10	24.00	22.50	18.30	13.40	10.40	8.90	8.00	6.73	5.83	5.15	4.62	4.20
TP 48	40.40	35.60	31.50	29.60	23.50	17.70	13.50	10.90	9.60	8.08	6.99	6.18	5.55	5.04
TP 55	50.00	44.00	39.00	36.60	28.60	22.00	16.50	13.10	11.00	9.26	8.01	7.08	6.36	5.78
TP 65	51.00	48.00	44.00	41.00	32.00	23.90	17.80	14.80	13.00	10.90	9.50	8.40	7.50	6.80
TP 75	59.00	56.00	50.00	47.00	37.00	27.50	20.50	17.10	15.00	12.60	10.90	9.70	8.70	7.90
TP 90	71.00	67.00	61.00	56.00	44.00	33.10	24.60	20.50	18.00	15.20	13.10	11.60	10.40	9.50
TP 110	87.00	82.00	74.00	69.00	54.00	40.40	30.10	25.00	22.00	18.50	16.00	14.20	12.70	11.60
TP 125	98.00	88.00	81.00	78.00	59.00	44.50	35.40	28.90	25.00	21.00	18.20	16.10	14.40	13.10
TP 140	109.00	99.00	89.00	81.00	66.00	49.90	39.60	32.40	28.00	23.60	20.40	18.00	16.20	14.70
TP 165	125.00	113.00	101.00	92.00	76.00	57.00	45.30	37.60	33.00	26.90	23.30	20.60	18.50	16.80
TP 185	144.00	131.00	117.00	106.00	88.00	66.00	52.30	42.70	37.00	31.10	27.00	23.80	21.40	19.40
TP 200	160.00	145.00	130.00	118.00	97.00	73.00	58.00	46.80	40.00	34.50	29.90	26.40	23.70	21.50
TP 230	169.00	153.00	137.00	124.00	102.00	80.00	60.00	51.30	46.00	37.90	32.80	29.00	26.00	23.60
TP 250	187.00	170.00	152.00	138.00	114.00	89.00	66.70	57.30	50.00	42.10	36.40	32.20	28.90	26.30
TP 275	202.00	183.00	164.00	149.00	123.00	96.00	72.00	61.40	55.00	45.50	39.30	34.80	31.20	28.40
TP 300	232.00	215.00	191.00	177.00	146.00	112.00	84.00	69.00	60.00	50.50	43.70	38.60	34.70	31.50
TP 315	248.00	229.00	203.00	189.00	156.00	120.00	89.60	73.00	63.00	53.90	46.60	41.20	37.00	33.60
TP 340	263.00	243.00	216.00	201.00	166.00	127.00	95.20	78.20	68.00	57.20	49.50	43.80	39.30	35.70
TP 355	275.00	254.00	226.00	209.00	173.00	133.00	99.00	81.60	71.00	59.80	51.70	45.70	41.00	37.30
TP 380	294.00	272.00	242.00	224.00	185.00	142.00	106.00	87.40	76.00	64.00	55.40	48.90	43.90	39.90
TP 400	302.00	279.00	248.00	230.00	190.00	146.00	112.00	92.00	80.00	67.30	58.30	51.50	46.20	42.00
TP 450	337.00	306.00	277.00	248.00	205.00	180.00	135.00	107.00	90.00	76.00	66.00	58.00	52.00	47.00
TP 500	374.00	340.00	308.00	276.00	228.00	200.00	150.00	119.00	100.00	84.00	73.00	64.00	58.00	52.00
TP 520	389.00	354.00	320.00	287.00	237.00	208.00	156.00	124.00	104.00	88.00	76.00	67.00	60.00	54.00
TP 550	412.00	374.00	339.00	303.00	251.00	220.00	165.00	131.00	110.00	93.00	81.00	71.00	64.00	57.00
TP 600	449.00	408.00	369.00	331.00	273.00	240.00	180.00	143.00	120.00	101.00	87.00	77.00	69.00	63.00
TP 675	506.00	459.00	416.00	372.00	308.00	270.00	203.00	161.00	135.00	114.00	98.00	87.00	78.00	71.00
TP 750	562.00	510.00	462.00	413.00	342.00	300.00	225.00	178.00	150.00	126.00	109.00	97.00	87.00	79.00
TP 1000	749.00	680.00	616.00	551.00	456.00	400.00	300.00	238.00	200.00	168.00	146.00	129.00	116.00	105.00
TP 1250	936.00	850.00	769.00	689.00	569.00	500.00	375.00	297.00	250.00	210.00	182.00	161.00	144.00	131.00

Current (Amps) to 1.10V @ 20°C (68°F)

Type	Minutes				Hours									
	5	10	15	30	1	2	3	4	5	6	7	8	9	10
TP 10	11.70	10.20	8.60	8.00	6.50	4.47	3.30	2.69	2.33	1.95	1.68	1.47	1.32	1.19
TP 18	19.10	16.60	14.10	13.10	10.60	7.30	5.40	4.41	3.82	3.20	2.75	2.42	2.16	1.95
TP 24	25.40	22.20	18.80	17.40	14.10	9.80	7.20	5.88	5.09	4.26	3.66	3.22	2.87	2.60
TP 30	31.80	27.70	23.50	21.80	17.60	12.20	9.00	7.35	6.36	5.32	4.58	4.02	3.59	3.24
TP 40	38.80	34.50	30.80	28.30	23.40	16.40	12.00	9.80	8.48	7.09	6.11	5.36	4.79	4.32
TP 48	50.90	45.30	40.40	37.20	28.80	20.60	15.10	12.10	10.00	8.37	7.20	6.33	5.64	5.10
TP 55	63.00	56.00	50.00	46.00	34.10	24.80	18.10	14.00	11.50	9.62	8.28	7.27	6.49	5.87
TP 65	71.00	66.00	59.00	54.00	41.00	28.80	20.40	16.30	13.80	11.55	9.94	8.73	7.79	7.04
TP 75	82.00	76.00	68.00	62.00	48.00	33.20	23.50	18.80	15.90	13.30	11.45	10.06	8.97	8.11
TP 90	98.00	92.00	82.00	74.00	57.00	39.80	28.20	22.50	19.10	15.98	13.75	12.08	10.78	9.74
TP 110	120.00	112.00	100.00	91.00	70.00	48.70	34.50	27.50	23.30	19.49	16.78	14.74	13.15	11.88
TP 125	128.00	116.00	107.00	98.00	75.00	54.30	39.60	31.30	26.30	22.00	18.90	16.60	14.80	13.40
TP 140	143.00	130.00	120.00	109.00	88.00	60.80	44.40	35.00	29.40	24.60	21.20	18.60	16.60	15.00
TP 165	164.00	148.00	137.00	125.00	101.00	69.50	50.70	40.00	33.60	28.10	24.20	21.30	19.00	17.10
TP 185	190.00	171.00	158.00	144.00	116.00	80.00	58.70	46.30	38.90	32.50	28.00	24.60	22.00	19.80
TP 200	210.00	190.00	175.00	160.00	129.00	89.00	65.00	51.30	43.10	36.10	31.00	27.30	24.30	22.00
TP 230	221.00	200.00	184.00	169.00	136.00	98.00	69.80	55.70	47.30	39.60	34.10	29.90	26.70	24.10
TP 250	246.00	222.00	205.00	187.00	151.00	109.00	77.60	61.80	52.60	44.00	37.90	33.30	29.70	26.80
TP 275	266.00	240.00	221.00	202.00	163.00	117.00	83.80	66.90	56.80	47.50	40.90	35.90	32.10	29.00
TP 300	312.00	281.00	260.00	232.00	188.00	133.00	93.80	74.30	63.00	52.70	45.40	39.80	35.60	32.10
TP 315	332.00	299.00	277.00	248.00	200.00	142.00	100.00	79.50	67.20	56.20	48.40	42.50	37.90	34.30
TP 340	353.00	318.00	295.00	263.00	213.00	151.00	106.00	84.20	71.40	59.70	51.40	45.20	40.30	36.40
TP 355	369.00	332.00	308.00	275.00	222.00	157.00	111.00	87.90	74.60	62.40	53.70	47.20	42.10	38.00
TP 380	395.00	356.00	329.00	294.00	238.00	169.00	119.00	94.10	79.80	66.80	57.50	50.50	45.00	40.70
TP 400	405.00	365.00	338.00	302.00	244.00	173.00	125.00	99.00	84.00	70.30	60.50	53.10	47.40	42.80
TP 450	443.00	400.00	369.00	337.00	272.00	203.00	149.00	115.00	94.50	79.10	68.00	59.80	53.30	48.20
TP 500	492.00	444.00	410.00	374.00	302.00	226.00	166.00	128.00	105.00	87.90	75.60	66.40	59.20	53.60
TP 520	512.00	462.00	426.00	389.00	314.00	235.00	172.00	133.00	109.00	91.20	78.50	68.90	61.50	55.60
TP 550	541.00	489.00	451.00	412.00	332.00	248.00	182.00	141.00	116.00	96.70	83.10	73.10	65.10	58.90
TP 600	591.00	533.00	492.00	449.00	363.00	271.00	199.00	153.00	126.00	105.40	90.70	79.70	71.10	64.30
TP 675	665.00	600.00	554.00	506.00	408.00	305.00	224.00	173.00	142.00	118.80	102.20	89.80	80.20	72.40
TP 750	738.00	667.00	615.00	562.00	453.00	338.00	248.00	192.00	158.00	132.20	113.80	99.90	89.20	80.60
TP 1000	984.00	889.00	820.00	749.00	604.00	451.00	331.00	255.00	210.00	175.70	151.20	132.80	118.50	107.10
TP 1250	1231.00	1111.00	1025.00	936.00	756.00	564.00	414.00	318.00	263.00	220.00	189.40	166.30	148.40	134.10

Current (Amps) to 1.05V @ 20°C (68°F)

Type	Minutes				Hours									
	5	10	15	30	1	2	3	4	5	6	7	8	9	10
TP 10	14.70	13.40	11.20	9.90	7.50	5.02	3.52	2.81	2.38	1.99	1.71	1.50	1.33	1.20
TP 18	24.10	21.90	18.30	16.10	12.30	8.20	5.76	4.56	3.89	3.25	2.79	2.45	2.18	1.96
TP 24	32.20	29.20	24.40	21.50	16.40	11.00	7.68	6.12	5.18	4.33	3.71	3.26	2.90	2.62
TP 30	40.20	36.50	30.50	26.90	20.50	13.70	9.60	7.65	6.48	5.41	4.65	4.07	3.63	3.27
TP 40	49.20	43.10	36.90	33.80	27.40	18.20	12.80	10.20	8.64	7.21	6.20	5.43	4.84	4.36
TP 48	64.60	56.60	48.50	44.40	33.20	22.40	15.90	12.40	10.40	8.68	7.46	6.54	5.82	5.25
TP 55	80.00	70.00	60.00	55.00	39.00	26.60	19.00	14.70	12.10	10.10	8.68	7.61	6.78	6.11
TP 65	85.00	78.00	70.00	64.00	47.00	30.60	21.20	16.80	14.10	11.77	10.11	8.87	7.90	7.12
TP 75	98.00	90.00	80.00	74.00	55.00	35.30	24.50	19.30	16.20	13.53	11.62	10.19	9.07	8.18
TP 90	118.00	108.00	97.00	88.00	65.00	42.40	29.40	23.20	19.50	16.28	13.98	12.26	10.92	9.85
TP 110	144.00	132.00	118.00	108.00	80.00	51.80	35.90	28.30	23.80	19.87	17.07	14.96	13.33	12.02
TP 125	154.00	139.00	127.00	116.00	89.00	59.10	41.20	32.30	26.90	22.46	19.29	16.91	15.06	13.58
TP 140	181.00	164.00	150.00	137.00	105.00	66.20	46.20	36.10	30.10	25.13	21.59	18.93	16.86	15.20
TP 165	207.00	187.00	172.00	156.00	120.00	75.70	52.80	41.30	34.40	28.72	24.67	21.63	19.26	17.37
TP 185	239.00	217.00	199.00	180.00	139.00	88.00	61.00	47.80	39.80	33.20	28.50	25.00	22.30	20.10
TP 200	265.00	240.00	220.00	200.00	154.00	97.00	67.60	52.90	44.10	36.80	31.60	27.70	24.70	22.30
TP 230	279.00	253.00	232.00	211.00	162.00	106.00	74.20	58.10	48.40	40.40	34.70	30.40	27.10	24.40
TP 250	310.00	281.00	258.00	234.00	180.00	118.00	82.40	64.40	53.80	44.90	38.60	33.80	30.10	27.20
TP 275	335.00	303.00	278.00	253.00	195.00	128.00	89.00	69.70	58.10	48.50	41.70	36.50	32.50	29.30
TP 300	377.00	346.00	315.00	284.00	223.00	141.00	96.00	75.80	64.50	53.90	46.30	40.60	36.10	32.60
TP 315	402.00	369.00	336.00	303.00	238.00	150.00	102.00	81.30	68.80	57.40	49.30	43.30	38.50	34.70
TP 340	427.00	392.00	357.00	322.00	253.00	160.00	109.00	85.90	73.10	61.00	52.40	46.00	40.90	36.90
TP 355	446.00	410.00	373.00	336.00	264.00	167.00	114.00	89.60	76.30	63.70	54.70	48.00	42.70	38.50
TP 380	477.00	438.00	399.00	360.00	283.00	178.00	122.00	96.00	81.70	68.20	58.60	51.40	45.80	41.30
TP 400	490.00	450.00	410.00	369.00	290.00	183.00	128.00	102.00	86.00	71.80	61.70	54.10	48.20	43.40
TP 450	558.00	506.00	464.00	421.00	320.00	218.00	156.00	120.00	99.00	82.70	71.00	62.20	55.40	50.00
TP 500	620.00	562.00	516.00	468.00	356.00	242.00	173.00	133.00	110.00	91.90	78.90	69.10	61.60	55.60
TP 520	645.00	585.00	536.00	486.00	370.00	252.00	180.00	139.00	114.00	95.20	81.80	71.70	63.80	57.60
TP 550	682.00	618.00	567.00	515.00	391.00	266.00	191.00	146.00	121.00	101.10	86.80	76.00	67.70	61.10
TP 600	744.00	675.00	619.00	561.00	427.00	291.00	208.00	161.00	132.00	110.20	94.70	83.00	73.90	66.70
TP 675	837.00	759.00	696.00	632.00	480.00	327.00	234.00	181.00	149.00	124.40	106.90	93.70	83.40	75.20
TP 750	930.00	843.00	773.00	702.00	533.00	363.00	260.00	201.00	165.00	137.80	118.30	103.70	92.40	83.30
TP 1000	1240.00	1124.00	1031.00	936.00	711.00	484.00	347.00	268.00	220.00	183.70	157.80	138.30	123.20	111.10
TP 1250	1550.00	1406.00	1289.00	1169.00	889.00	606.00	433.00	335.00	275.00	229.60	197.20	172.90	154.00	138.90

Current (Amps) to 1.00V @ 20°C (68°F)

Type	Minutes				Hours									
	5	10	15	30	1	2	3	4	5	6	7	8	9	10
TP 10	16.90	15.90	13.50	11.80	8.60	5.32	3.70	2.90	2.42	2.02	1.74	1.52	1.36	1.22
TP 18	27.70	26.00	22.10	19.80	14.50	8.70	6.06	4.75	3.96	3.31	2.84	2.49	2.22	2.00
TP 24	37.00	34.70	29.50	26.40	19.40	11.60	8.08	6.33	5.28	4.41	3.79	3.32	2.96	2.67
TP 30	46.20	43.40	36.90	33.00	24.30	14.50	10.10	7.91	6.60	5.51	4.73	4.15	3.70	3.33
TP 40	55.40	50.50	42.50	44.00	32.40	19.40	13.46	10.55	8.80	7.35	6.31	5.53	4.93	4.44
TP 48	72.70	66.30	54.80	52.30	37.80	23.70	16.30	12.70	10.50	8.77	7.53	6.60	5.88	5.30
TP 55	90.00	82.00	67.00	60.50	44.50	27.90	19.20	14.80	12.20	10.19	8.75	7.67	6.83	6.16
TP 65	98.00	91.00	80.00	74.00	54.00	32.00	21.90	17.20	14.30	11.94	10.26	8.99	8.01	7.22
TP 75	113.00	105.00	93.00	85.00	62.00	36.90	25.20	19.80	16.50	13.78	11.83	10.37	9.24	8.33
TP 90	135.00	126.00	111.00	102.00	74.00	44.30	30.30	23.70	19.80	16.53	14.20	12.45	11.09	10.00
TP 110	165.00	154.00	136.00	125.00	91.00	54.10	37.00	29.00	24.20	20.21	17.35	15.22	13.55	12.22
TP 125	182.00	168.00	151.00	139.00	101.00	61.00	42.10	33.00	27.50	22.96	19.72	17.29	15.40	13.89
TP 140	215.00	198.00	178.00	164.00	120.00	68.30	47.10	36.90	30.80	25.72	22.09	19.37	17.25	15.55
TP 165	246.00	226.00	203.00	187.00	137.00	78.00	53.90	42.20	35.20	29.39	25.24	22.13	19.71	17.78
TP 185	284.00	262.00	235.00	217.00	158.00	90.00	62.30	48.80	40.70	34.00	29.20	25.60	22.80	20.60
TP 200	315.00	290.00	260.00	240.00	175.00	100.00	69.00	54.10	45.10	37.70	32.30	28.40	25.30	22.80
TP 230	332.00	306.00	274.00	253.00	186.00	110.00	75.70	59.30	49.50	41.30	35.50	31.10	27.70	25.00
TP 250	369.00	340.00	304.00	281.00	205.00	122.00	84.10	65.60	55.00	45.90	39.40	34.60	30.80	27.80
TP 275	398.00	367.00	329.00	303.00	223.00	132.00	90.90	71.20	59.40	49.60	42.60	37.30	33.30	30.00
TP 300	460.00	415.00	370.00	335.00	250.00	144.00	98.30	78.00	66.00	55.10	47.30	41.50	37.00	33.30
TP 315	491.00	443.00	395.00	358.00	267.00	153.00	105.00	83.40	70.40	58.80	50.50	44.30	39.40	35.60
TP 340	521.00	471.00	419.00	380.00	283.00	163.00	111.00	88.40	74.80	62.50	53.60	47.00	41.90	37.80
TP 355	544.00	492.00	438.00	397.00	296.00	170.00	116.00	92.30	78.10	65.20	56.00	49.10	43.70	39.40
TP 380	583.00	526.00	469.00	425.00	317.00	182.00	124.00	98.80	83.60	69.80	60.00	52.60	46.80	42.20
TP 400	598.00	540.00	481.00	436.00	325.00	187.00	131.00	104.00	88.00	73.50	63.10	55.30	49.30	44.40
TP 450	664.00	612.00	547.00	495.00	365.00	229.00	158.00	122.00	99.90	83.40	71.60	62.80	55.90	50.40
TP 500	738.00	680.00	608.00	550.00	406.00	254.00	176.00	136.00	111.00	92.70	79.60	69.80	62.10	56.00
TP 520	767.00	707.00	632.00	572.00	422.00	265.00	183.00	141.00	115.00	96.00	82.50	72.30	64.40	58.10
TP 550	812.00	748.00	669.00	605.00	446.00	280.00	193.00	149.00	122.00	101.90	87.50	76.80	68.30	61.60
TP 600	885.00	816.00	729.00	660.00	487.00	305.00	211.00	162.00	133.00	111.10	95.40	83.60	74.50	67.20
TP 675	996.00	918.00	821.00	743.00	548.00	344.00	237.00	183.00	150.00	125.30	107.60	94.30	84.00	75.80
TP 750	1107.00	1020.00	912.00	825.00	608.00	382.00	263.00	203.00	167.00	139.40	119.80	105.00	93.50	84.30
TP 1000	1476.00	1360.00	1216.00	1100.00	811.00	509.00	351.00	270.00	222.00	185.40	159.20	139.60	124.30	112.10
TP 1250	1844.00	1700.00	1519.00	1375.00	1014.00	636.00	439.00	337.50	278.00	232.10	199.40	174.80	155.70	140.40



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