

GP series

GP-series batteries have the widest range of applications. With VRLA technology, they are small, lightweight and can be used for more than 260 cycles at 100% discharge, or up to 5 years in standby service.

As with all CSB batteries, all GP series batteries are rechargeable, highly efficient, maintenance free, leakproof, viable in any orientation and ISO/UL certified.



Performance

- · Multi-functional.
- For both cycle and standby use.
- Uniform plate formation for consistent capacity.
- Reduced internal resistance for superior performance.
- Provides hundreds to thousands of recharge cycles (cycle life is based on temperature and depth of discharge)
- · No-spill design.
- Can be used in any orientation.
- · Maintenance-free.
- Low self-discharge.

Service life

- Up to 5 years expected life under normal float charge conditions at 25 °C (77°F)
- Extended shelf life (up to 14 months at 20 ℃)

Reliability

- CSB manufactured batteries are 100% 2-cycle tested by CCDS.
- CSB-manufactured batteries are UL-recognized components under UL 924 and UL 1989. CSB file number MH 14533.
- ISO 9001/14001 certified.

Applications

Standby use

- · UPS.
- Workstation UPS.
- · Emergency lighting equipment.
- · Precision instrument backup power.
- Fire alarm and security systems.
- · Communications and electrical equipment.
- · Office computers, microcomputers and OA equipment.
- Robots, control equipment and other FA equipment.
- · Telemeters.
- Emergency power supply in power plants & substations.

Cycle use

- · Portable measuring equipment.
- Cameras and photographic equipment.
- Various toys and hobby equipment.

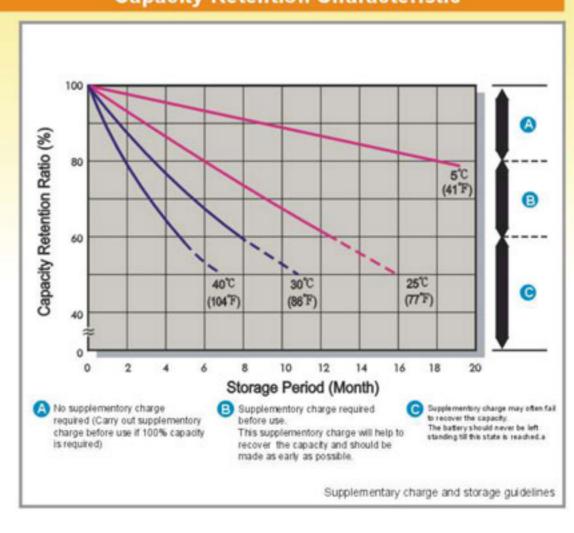
Solar Cell Power Generation

- · Street lighting.
- Portable power supply.
- Water pumping.
- · Rural power systems.

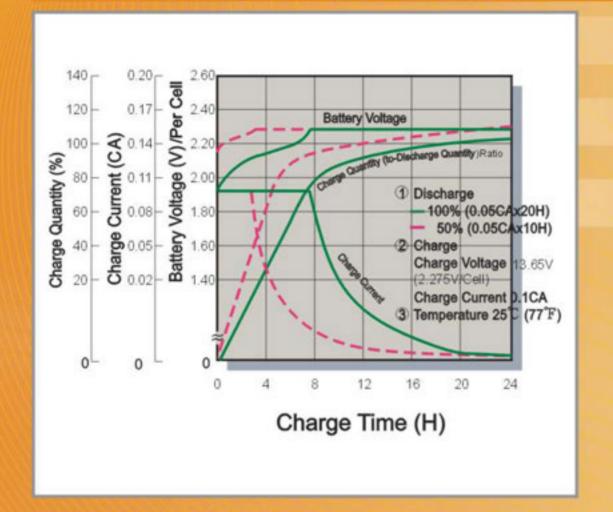
Trickle (or Float) Service Life

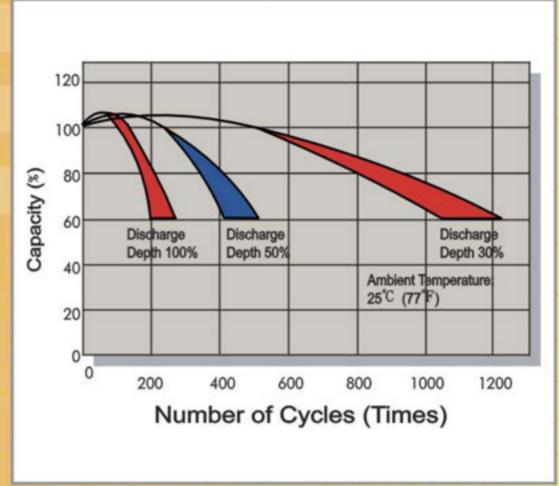
(Sub) 3 (Charging Voltage 2.275 V/Cell 2.275

Capacity Retention Characteristic

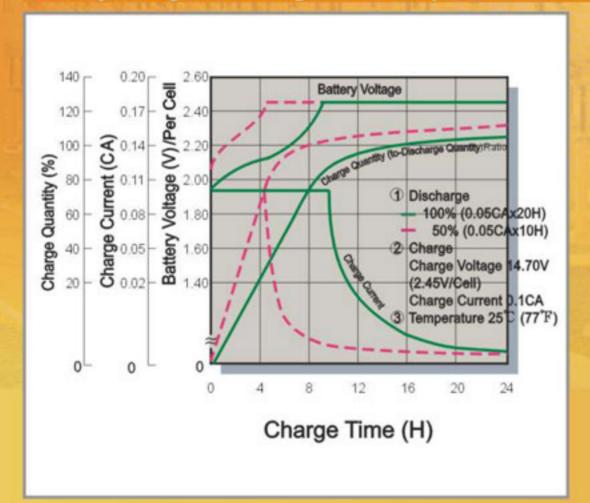


Battery Voltage and Charge Time for Standby Use

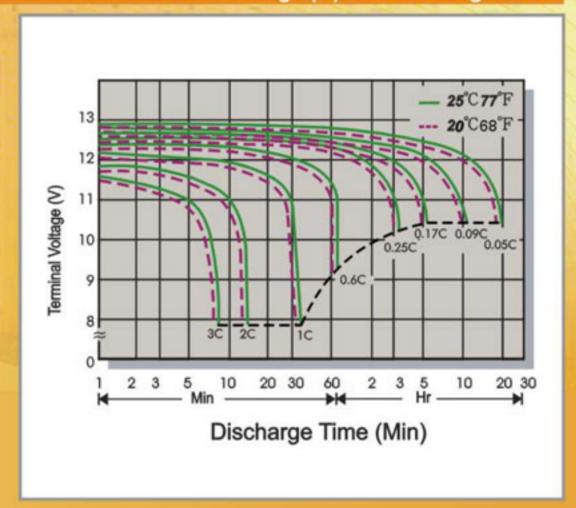




Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time

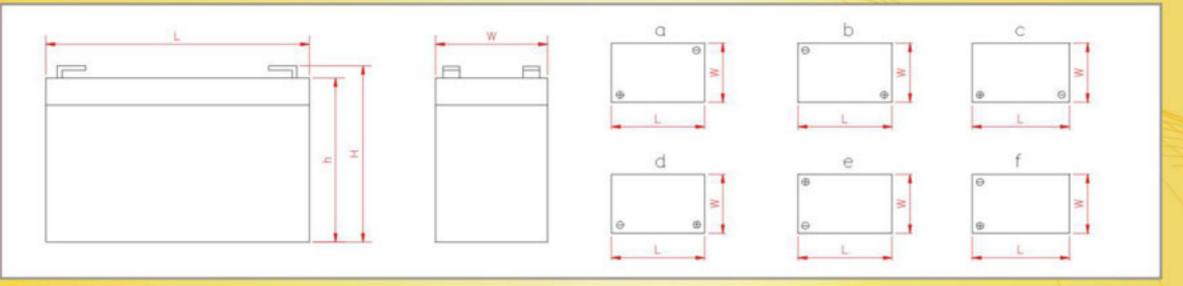


Spec	ificati	ons														
GP645	6	4.5	0.84	78.8	32.14	19.00	60/90	108±1.5	102±1.5	70±1.0	48±1.0	a	F1/F2	1.35	- 10-	
GP672	6	7.2	1.22	89.5	35.50	15.50	100/130	100±1.0	94±1.0	151±2.0	34±1.0	С	F1/F2	2.16	-	-
GP6120	6	12.0	1.85	101.5	38.92	8.50	150/180	100±1.0	94±1.0	151±2.0	50±1.0	c	F1/F2	3.60		
GP1222	12	2.2	0.90	72.7	29.33	63.00	40/60	66±1.0	60±1.0	178±0.5	3410.5	С	F1/F2	0.66	-	
GP1245	12	4.5	1.66	81.6	32.53	40.50	60/90	108±1.5	102±1.5	92.8±1.0	69.9±1.0	c	F1/F2	1.35	-	-
GP1272	12	7.2	2.40	93.6	36.00	23.00	100/130	100±1.0	94±1.0	151±2.0	65±1.0	е	F1/F2	2.16	-	
GP12120	12	12.0	3.67	103.5	39.24	16.00	150/180	100±1.0	94±1.0	151±2.0	98±1.0	е	F1/F2	3.60		
GP12170	12	17.0	5.50	89.4	37.09	16.00	230	167±2.0	165.5±2.0	181±2.0	76.2±1.0	d	B1/B3	5.10	65/56	6.37
GP12200	12	20.0	6.40	108.8	37.50	13.00	230	167±2.0	160±2.0	181±2.0	76.2±1.0	d	11	6.00	65/56	6.37
GP12260	12	26.0	8.45	88.0	36.92	11.00	350	125±1.5	122±1.5	175±2.0	166±2.0	d	B1/B3/B3B	7.80	65/56	6.37
GP12340	12	34.0	10.48	103.7	38.93	8,00	380	178.3±2.0	154.8±2.0	195,6±2.0	130±1.5	c	B5	10.20	127/110	12.45
GP12400	12	40.0	12.63	87.6	38.00	11.00	400	170±2.0	168.5±2.0	197±2.0	165±2.0	d	B2	12.00	65/56	6.37
GP12650	12	65.0	20.00	78.0	39.00	8.00	500	174±2.0	172.5±2.0	349,4±2,5	166±2.0	d	B4	19.50	127/110	12.45
GP121000	12	100.0	31.20	95.9	38.46	4.50	800	217.612.5	214.6±2.5	34312.5	170±2.0	f	12	30.00	127/110	12.45

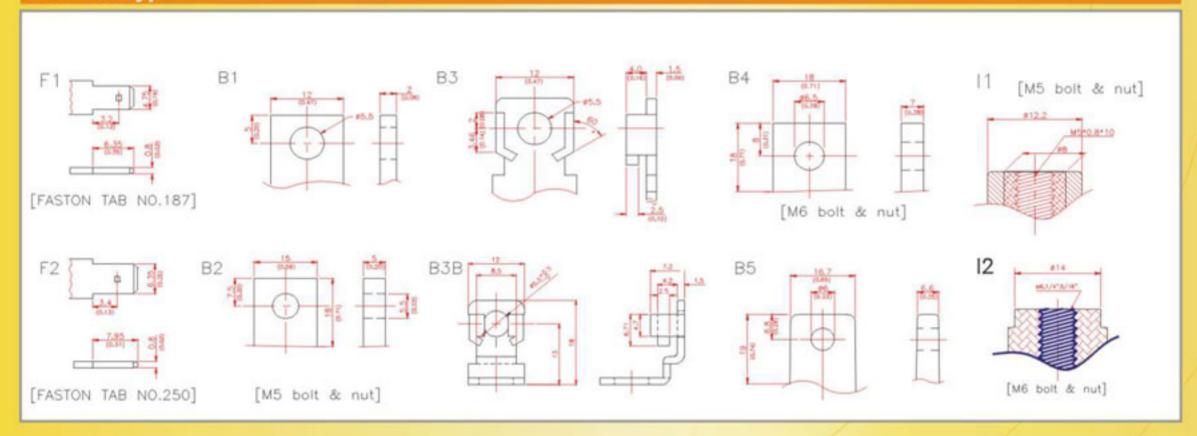
Charging(V): • Standby Use: 2.275V±0.025/CELLAT 25℃ (77 F) Temp Coefficient -3.3mV/CELL℃

Cycle Use: 2.45V±0.05V/CELLAT 25°C (77°F) Temp Coefficient -5mV/CELL°C

Terminal Position



Terminal Type



GP645												
			Constant	Current Di	scharge (Characteris	stics Unit:/	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	18.7	12.3	9.08	5.37	3.11	1.80	1.26	0.994	0.810	0.535	0.439	0.234
1.67V	17.6	11.8	8.89	5.31	3.10	1.79	1.25	0.987	0.808	0.533	0.438	0.233
1.70V	17.0	11.6	8.79	5.28	3.08	1.78	1.24	0.984	0.807	0.532	0.437	0.232
1.75V	16.1	11.2	8.62	5.22	3.06	1.77	1.23	0.979	0.804	0.531	0.435	0.229
1.80V	15.0	10.7	8.42	5.13	3.03	1.76	1.22	0.975	0.801	0.529	0.431	0.225
1.85V	13.8	10.3	8.22	5.05	3.00	1.75	1.21	0.971	0.798	0.528	0.428	0.221
			Consta	int Power [Discharge	Characteri	istics Unit:	Watts(25*0	, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	111	72.4	54.8	32.9	19.3	11.1	8.06	6.41	5.34	3.55	2.90	1.60
1.67V	103	69.7	53.3	32.7	19.2	11.0	7.98	6.37	5.30	3.54	2.89	1.59
1.70V	99.5	68.6	52.5	32.4	19.1	10.9	7.95	6.32	5.25	3.52	2.88	1.58
1.75V	93.9	66.4	51.2	32.3	19.0	10.8	7.88	6.27	5.21	3.51	2.87	1.57
1.80V	88.5	64.1	50.0	31.8	18.8	10.7	7.86	6.21	5.17	3.48	2.86	1.56
1.85V	82.7	61.1	48.3	30.5	18.3	10.6	7.75	6.17	5.11	3.45	2.82	1.55

CDC70						/	/					
GP672			Constant	Compant D			tion Heits		E'C 77'E)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	35.6	22.0	16.5	9.61	5.51	3.08	2.14	1.65	1.35	0.925	0.778	0.456
1.67V	33.1	21.0	15.9	9.36	5.42	3.03	2.09	1.60	1.32	0.906	0.762	0.447
1.70V	31.9	20.5	15.6	9.24	5.37	3.00	2.06	1.58	1.30	0.897	0.756	0.438
1.75V	29.6	19.6	15.1	9.03	5.30	2.96	2.02	1.54	1.28	0.883	0.742	0.428
1.80V	27.2	18.6	14.4	8.77	5.23	2.92	1.99	1.50	1.25	0.871	0.732	0.421
1.85V	24.5	17.4	13.7	8.45	5.14	2.87	1.96	1.48	1.23	0.861	0.720	0.409
			Consta	int Power I	Discharge	Character	istics Unit:	Watts(25°C	c, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	180	123	91.4	53.9	32.2	18.8	13.3	10.4	8.63	5.88	4.90	2.69
1.67V	170	118	88.7	52.9	31.8	18.5	13.2	10.3	8.51	5.80	4.84	2.64
1.70V	165	115	87.2	52.4	31.6	18.4	13.1	10.2	8.46	5.76	4.77	2.62
1.75V	157	111	85.0	51.6	31.2	18.2	13.0	10.1	8.36	5.71	4.74	2.58
1.80V	147	106	82.3	50.6	30.9	18.0	12.8	10.0	8.27	5.65	4.70	2.54
1.85V	138	101	79.2	49.5	30.4	17.7	12.6	9.80	8.17	5.61	4.65	2.50

GP6120)											
			Constant	Current D	ischarge C	haracteris	stics Unit:A	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	51.2	33.2	23.9	13.9	8.14	4.70	3.37	2.70	2.24	1.45	1.19	0.622
1.67V	48.2	32.0	23.6	13.7	8.12	4.62	3.36	2.67	2.21	1.44	1.18	0.618
1.70V	46.3	31.6	23.3	13.6	8.09	4.61	3.32	2.63	2.18	1.43	1.17	0.613
1.75V	43.3	30.0	22.6	13.4	8.03	4.58	3.26	2.58	2.13	1.41	1.16	0.611
1.80V	38.8	28.0	21.5	13.0	7.81	4.48	3.17	2.50	2.06	1.38	1.14	0.594
1.85V	34.2	25.3	19.8	12.3	7.51	4.29	3.03	2.36	1.97	1.32	1.09	0.572
			Consta	int Power [Discharge	Characteri	stics Unit:	Watts(25'0	. 77'F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	269	173	134	79.8	48.9	28.0	19.8	15.3	12.7	8.37	6.91	3.85
1.67V	257	171	132	79.6	48.8	27.8	19.7	15.2	12.6	8.30	6.85	3.82
1.70V	250	168	131	78.8	48.5	27.7	19.5	15.1	12.5	8.25	6.80	3.81
1.75V	231	163	128	78.1	48.1	27.5	19.3	14.9	12.2	8.12	6.69	3.77
1.80V	209	153	121	76.3	47.4	26.8	18.9	14.5	12.0	7.92	6.53	3.71
1.85V	185	140	111	72.2	45.8	26.3	18.1	14.1	11.7	7.74	6.36	3.62

GP1222	2											
			Constant	Current D	ischarge (Characteris	tics Unit:	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	8.67	5.90	4.45	2.63	1.42	0.820	0.590	0.470	0.390	0.260	0.219	0.125
1.67V	7.94	5.50	4.17	2.49	1.36	0.787	0.569	0.449	0.371	0.249	0.209	0.118
1.70V	7.57	5.27	4.02	2.42	1.33	0.774	0.560	0.440	0.363	0.244	0.205	0.115
1.75V	6.75	4.76	3.68	2.25	1.30	0.751	0.540	0.425	0.351	0.238	0.199	0.110
1.80V	5.84	4.16	3.31	2.08	1.25	0.730	0.520	0.410	0.340	0.231	0.192	0.105
1.85V	4.79	3.48	2.82	1.90	1.21	0.710	0.504	0.395	0.330	0.225	0.185	0.100
			Consta	int Power I	Discharge	Character	stics Unit:	Watts(25'0	C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	104	70.8	54.5	32.3	17.0	9.79	7.11	5.62	4.64	3.06	2.59	1.41
1.67V	94.0	66.5	51.7	30.2	16.3	9.45	6.82	5.39	4.45	2.93	2.49	1.35
1.70V	89.7	63.6	49.9	29.2	16.0	9.28	6.69	5.29	4.37	2.88	2.44	1.32
1.75V	81.0	57.5	45.7	27.0	15.5	8.99	6.49	5.13	4.24	2.80	2.37	1.28
1.80V	70.1	49.9	39.7	24.9	15.0	8.70	6.28	4.96	4.10	2.71	2.29	1.24
1.85V	57.5	41.8	33.8	22.7	14.5	8.41	6.08	4.80	3.97	2.63	2.22	1.20

GP1245	5											
			Constant	Current D	ischarge (Characteris	tics Unit:	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	18.7	12.3	9.08	5.37	3.11	1.80	1.26	0.994	0.810	0.535	0.439	0.234
1.67V	17.6	11.8	8.89	5.31	3.10	1.79	1.25	0.987	0.808	0.533	0.438	0.233
1.70V	17.0	11.6	8.79	5.28	3.08	1.78	1.24	0.984	0.807	0.532	0.437	0.232
1.75V	16.1	11.2	8.62	5.22	3.06	1.77	1.23	0.979	0.804	0.531	0.435	0.229
1.80V	15.0	10.7	8.42	5.13	3.03	1.76	1.22	0.975	0.801	0.529	0.431	0.225
1.85V	13.8	10.3	8.22	5.05	3.00	1.75	1.21	0.971	0.798	0.528	0.428	0.221
			Consta	int Power I	Discharge	Characteri	stics Unit	Watts(25°C	, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	221	145	110	65.9	38.6	22.2	16.1	12.8	10.7	7.10	5.80	3.19
1.67V	206	139	107	65.4	38.4	22.0	16.0	12.7	10.6	7.08	5.78	3.18
1.70V	199	137	105	64.9	38.1	21.9	15.9	12.6	10.5	7.04	5.77	3.17
1.75V	188	133	102	64.7	38.0	21.8	15.8	12.5	10.4	7.03	5.74	3.16
1.80V	177	128	100	63.6	37.7	21.5	15.7	12.4	10.3	6.97	5.72	3.13
1.85V	165	122	96.6	60.9	36.7	21.3	15.5	12.3	10.2	6.89	5.64	3.09

GP1272	2											
			Constant	Current D	ischarge (Characteris	tics Unit:	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	35.6	22.0	16.5	9.61	5.51	3.08	2.14	1.65	1.35	0.925	0.778	0.456
1.67V	33.1	21.0	15.9	9.36	5.42	3.03	2.09	1.60	1.32	0.906	0.762	0.447
1.70V	31.9	20.5	15.6	9.24	5.37	3.00	2.06	1.58	1.30	0.897	0.756	0.438
1.75V	29.6	19.6	15.1	9.03	5.30	2.96	2.02	1.54	1.28	0.883	0.742	0.428
1.80V	27.2	18.6	14.4	8.77	5.23	2.92	1.99	1.50	1.25	0.871	0.732	0.421
1.85V	24.5	17.4	13.7	8.45	5.14	2.87	1.96	1.48	1.23	0.861	0.720	0.409
			Consta	int Power I	Discharge	Characteri	stics Unit:	Watts(25°C	:, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	360	245	183	108	64.4	37.7	26.6	20.8	17.3	11.8	9.80	5.37
1.67V	340	235	177	106	63.6	37.1	26.3	20.5	17.0	11.6	9.69	5.27
1.70V	331	231	174	105	63.1	36.9	26.2	20.4	16.9	11.5	9.54	5.23
1.75V	313	222	170	103	62.4	36.4	25.9	20.2	16.7	11.4	9.48	5.15
1.80V	295	213	165	101	61.7	35.9	25.6	19.9	16.5	11.3	9.40	5.07
1.85V	276	202	158	99.0	60.8	35.4	25.2	19.6	16.3	11.2	9.29	4.99

GP121	20											
			Constant	Current Di	scharge (Characteris	tics Unit:	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	51.2	33.2	23.9	13.9	8.14	4.70	3.37	2.70	2.24	1.45	1.19	0.622
1.67V	48.2	32.0	23.6	13.7	8.12	4.62	3.36	2.67	2.21	1.44	1.18	0.618
1.70V	46.3	31.6	23.3	13.6	8.09	4.61	3.32	2.63	2.18	1.43	1.17	0.613
1.75V	43.3	30.0	22.6	13.4	8.03	4.58	3.26	2.58	2.13	1.41	1.16	0.611
1.80V	38.8	28.0	21.5	13.0	7.81	4.48	3.17	2.50	2.06	1.38	1.14	0.594
1.85V	34.2	25.3	19.8	12.3	7.51	4.29	3.03	2.36	1.97	1.32	1.09	0.572
			Consta	int Power I	Discharge	Characteri	stics Unit:	Watts(25'C	, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	539	347	268	160	97.9	55.9	39.6	30.5	25.3	16.7	13.8	7.70
1.67V	515	342	265	159	97.7	55.6	39.3	30.4	25.2	16.6	13.7	7.63
1.70V	499	336	262	158	97.0	55.4	39.0	30.1	25.0	16.5	13.6	7.62
1.75V	462	326	256	156	96.1	54.9	38.5	29.8	24.4	16.2	13.4	7.55
1.80V	418	307	243	153	94.8	53.7	37.7	29.1	24.1	15.8	13.1	7.43
1.85V	369	280	221	144	91.6	52.6	36.3	28.2	23.3	15.5	12.7	7.24

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GP1217	70											
			Constant	Current D	scharge C	haracteris	stics Unit:/	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	80.2	50.9	38.5	23.4	13.8	8.03	5.72	4.44	3.63	2.37	1.93	1.00
1.67V	71.2	47.5	36.5	22.9	13.7	8.00	5.69	4.43	3.62	2.36	1.90	0.958
1.70V	67.4	45.8	35.6	22.7	13.6	7.98	5.68	4.42	3.61	2.35	1.89	0.940
1.75V	61.0	43.1	34.1	22.3	13.4	7.93	5.65	4.41	3.60	2.33	1.86	0.910
1.80V	54.5	40.2	32.7	21.8	13.3	7.87	5.61	4.38	3.58	2.30	1.83	0.880
1.85V	48.0	37.3	31.0	21.2	13.1	7.81	5.57	4.36	3.57	2.28	1.80	0.850
			Consta	int Power I	Discharge	Character	istics Unit:	Watts(25°C	c, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	890	583	449	281	166	96.4	68.6	53.3	43.6	28.4	23.1	12.0
1.67V	790	544	423	275	164	96.0	68.5	53.1	43.4	28.3	22.8	11.5
1.70V	748	527	413	272	163	95.8	68.4	53.0	43.3	28.2	22.7	11.3
1.75V	677	493	395	267	161	95.3	67.9	52.8	43.2	27.9	22.4	10.9
1.80V	605	460	377	261	160	94.6	67.3	52.6	43.0	27.6	22.0	10.5
1.85V	533	427	361	254	158	93.8	66.8	52.3	42.9	27.3	21.7	10.1

GP122	00											
			Constant	Current D	scharge C	Characteris	stics Unit:	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	87.5	55.5	42.3	25.5	15.1	8.75	6.23	4.92	3.97	2.62	2.10	1.09
1.67V	77.7	51.8	39.7	24.9	15.0	8.69	6.22	4.90	3.94	2.61	2.07	1.05
1.70V	73.5	50.2	38.7	24.7	14.9	8.67	6.20	4.89	3.93	2.60	2.06	1.03
1.75V	66.4	47.0	37.1	24.2	14.8	8.55	6.17	4.86	3.92	2.59	2.04	1.00
1.80V	59.3	43.8	35.2	23.8	14.5	8.42	6.12	4.83	3.91	2.58	2.00	0.960
1.85V	52.2	40.5	33.7	23.2	14.3	8.30	6.07	4.79	3.90	2.57	1.97	0.925
			Consta	int Power [Discharge	Characteri	stics Unit:	Watts(25*0	c, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	1,050	666	507	306	181	105	74.7	59.0	47.6	31.4	25.2	13.1
1.67V	932	621	481	301	179	104	74.6	58.9	47.3	31.3	24.9	12.5
1.70V	882	602	466	299	178	103	74.3	58.7	47.2	31.2	24.8	12.3
1.75V	797	564	446	292	176	102	74.0	58.5	47.1	31.1	24.4	11.9
1.80V	712	525	421	285	174	101	73.4	58.0	46.9	31.0	24.0	11.5
1.85V	627	487	404	278	171	99.5	72.8	57.6	46.8	30.9	23.6	11.1

GP122	60											
			Constant	Current Di	scharge (haracteris	tics Unit:	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	106	69.0	52.8	32.7	19.6	11.5	8.14	6.37	5.24	3.46	2.82	1.47
1.67V	99.0	65.9	51.1	32.3	19.5	11.4	8.13	6.36	5.23	3.43	2.79	1.43
1.70V	95.7	64.6	50.4	32.2	19.4	11.3	8.12	6.35	5.22	3.42	2.78	1.41
1.75V	89.7	62.0	49.0	31.6	19.3	11.2	8.11	6.34	5.21	3.39	2.74	1.37
1.80V	83.3	59.4	47.5	31.1	19.2	11.1	8.10	6.33	5.19	3.35	2.70	1.33
1.85V	76.7	56.5	45.8	30.5	19.1	11.0	8.09	6.32	5.17	3.32	2.66	1.29
			Consta	int Power [Discharge	Character	stics Unit:	Watts(25'0	C, 77'F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	1,270	828	634	392	235	138	97.7	76.4	62.9	41.5	33.8	17.6
1.67V	1,181	790	610	385	234	137	97.6	76.3	62.8	41.2	33.5	17.1
1.70V	1,139	772	602	382	233	136	97.5	76.2	62.7	41.0	33.3	16.9
1.75V	1,071	744	586	378	232	135	97.4	76.1	62.6	40.6	32.9	16.5
1.80V	999	713	570	373	231	134	97.3	76.0	62.3	40.2	32.4	16.0
1.85V	920	678	550	367	230	133	97.2	75.9	62.1	39.8	32.0	15.6

GP123	40											
			Constant	Current D	ischarge C	haracteris	tics Unit:	Amperes(2	5°C, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	144	91.7	69.3	42.1	25.0	14.5	10.3	8.00	6.55	4.26	3.48	1.86
1.67V	128	85.5	65.5	41.3	24.7	14.4	10.2	7.97	6.51	4.24	3.43	1.78
1.70V	121	82.8	63.8	40.8	24.5	14.3	10.1	7.95	6.49	4.23	3.41	1.75
1.75V	110	77.5	61.2	40.0	24.4	14.2	10.0	7.94	6.47	4.19	3.36	1.70
1.80V	98.0	72.3	58.8	39.2	24.0	14.1	9.91	7.89	6.45	4.14	3.30	1.64
1.85V	86.3	67.0	55.7	38.2	23.6	14.0	9.81	7.85	6.43	4.10	3.25	1.59
			Consta	ent Power	Discharge	Character	stics Unit:	Watts(25*0	c, 77°F)			
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	1,732	1,100	832	505	300	174	124	96.0	78.6	51.1	41.7	21.6
1.67V	1,539	1,026	788	495	297	173	123	95.8	78.1	50.8	41.1	20.7
1.70V	1,456	994	771	490	295	172	122	95.7	77.9	50.7	40.9	20.3
1.75V	1,316	931	739	481	292	171	121	95.2	77.7	50.2	40.3	19.6
1.80V	1,176	867	705	470	288	170	120	94.7	77.4	49.6	39.6	18.9
1.85V	1,036	804	669	458	283	169	119	94.2	77.2	49.1	39.0	18.2
CD424	00											
GP124	UU								rie zziel			
EVITING	ENAINI	401411			ischarge C			The second second	The second second	OLID	40110	20110
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V 1.67V	176 157	113 105	85.0	51.8	30.6	17.7	12.6	9.83	8.01	5.25	4.28	2.21
1.67V 1.70V	149	105	81.0 78.7	50.8 50.1	30.3	17.6 17.5	12.5 12.4	9.77	7.98	5.19 5.17	4.20 4.16	2.12
1.75V	135				30.2			9.73	7.93	5.10	4.10	
1.75V 1.80V	121	95.0 88.3	75.5 71.7	49.0 47.6	29.8	17.4 17.3	12.3 12.2	9.71	7.89	5.03	4.09	1.93
1.85V	107	81.7	67.8	46.2	29.4	17.2	12.1	9.63	7.85	4.96	3.96	1.86
1.000	107	01.7			Discharge					1.00	5.50	1.00
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	2,110	1,350	1,020	622	367	212	151	118	96.1	63.0	51.3	26.5
1.67V	1,886	1,259	972	606	364	211	150	117	95.7	62.3	50.4	25.4
1.70V	1,790	1,214	945	600	363	210	149	116	95.5	62.0	50.0	24.9
1.75V	1,620	1,140	902	585	360	209	148	115	95.2	61.2	49.2	24.1
1.80V	1,450	1,060	860	571	357	208	147	114	94.8	60.4	48.3	23.2
1.85V	1,280	980	814	555	353	207	146	113	94.2	59.6	47.5	22.4
GP126	50											
GP126			Total Incompany of the Control	Current D	ischarge C	Characteris		Amperes(2				
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
F.V/Time 1.60V	5MIN 271	173	15MIN 132	30MIN 79.9	1HR 47.2	2HR 27.3	3HR 19.4	4HR 15.1	5HR 12.4	8.08	6.58	3.57
F.V/Time 1.60V 1.67V	5MIN 271 242	173 162	15MIN 132 124	30MIN 79.9 78.3	1HR 47.2 46.9	2HR 27.3 27.2	3HR 19.4 19.3	4HR 15.1 15.0	5HR 12.4 12.3	8.08 7.98	6.58 6.48	3.57 3.42
F.V/Time 1.60V 1.67V 1.70V	5MIN 271 242 229	173 162 157	15MIN 132 124 121	30MIN 79.9 78.3 77.3	1HR 47.2 46.9 46.7	2HR 27.3 27.2 27.1	3HR 19.4 19.3 19.2	4HR 15.1 15.0 14.9	5HR 12.4 12.3 12.2	8.08 7.98 7.93	6.58 6.48 6.43	3.57 3.42 3.36
F.V/Time 1.60V 1.67V 1.70V 1.75V	5MIN 271 242 229 208	173 162 157 147	15MIN 132 124 121 117	30MIN 79.9 78.3 77.3 75.4	1HR 47.2 46.9 46.7 46.4	2HR 27.3 27.2 27.1 27.0	3HR 19.4 19.3 19.2 19.1	4HR 15.1 15.0 14.9 14.8	5HR 12.4 12.3 12.2 12.1	8.08 7.98 7.93 7.86	6.58 6.48 6.43 6.32	3.57 3.42 3.36 3.25
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V	5MIN 271 242 229 208 186	173 162 157 147 137	15MIN 132 124 121 117 111	30MIN 79.9 78.3 77.3 75.4 73.4	1HR 47.2 46.9 46.7 46.4 45.9	2HR 27.3 27.2 27.1 27.0 26.9	3HR 19.4 19.3 19.2 19.1 19.0	4HR 15.1 15.0 14.9 14.8 14.7	5HR 12.4 12.3 12.2 12.1 12.0	8.08 7.98 7.93 7.86 7.76	6.58 6.48 6.43 6.32 6.21	3.57 3.42 3.36 3.25 3.14
F.V/Time 1.60V 1.67V 1.70V 1.75V	5MIN 271 242 229 208	173 162 157 147	15MIN 132 124 121 117 111 105	30MIN 79.9 78.3 77.3 75.4 73.4 71.3	1HR 47.2 46.9 46.7 46.4 45.9 45.4	2HR 27.3 27.2 27.1 27.0 26.9 26.8	3HR 19.4 19.3 19.2 19.1 19.0 18.9	4HR 15.1 15.0 14.9 14.8 14.7	5HR 12.4 12.3 12.2 12.1 12.0 11.9	8.08 7.98 7.93 7.86	6.58 6.48 6.43 6.32	3.57 3.42 3.36 3.25
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164	173 162 157 147 137 127	15MIN 132 124 121 117 111 105 Consta	30MIN 79.9 78.3 77.3 75.4 73.4 71.3	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character	3HR 19.4 19.3 19.2 19.1 19.0 18.9	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25)	5HR 12.4 12.3 12.2 12.1 12.0 11.9	8.08 7.98 7.93 7.86 7.76 7.66	6.58 6.48 6.43 6.32 6.21 6.10	3.57 3.42 3.36 3.25 3.14 3.03
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164	173 162 157 147 137 127	15MIN 132 124 121 117 111 105 Consta	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit:	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25*0	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5.77°F)	8.08 7.98 7.93 7.86 7.76 7.66	6.58 6.48 6.43 6.32 6.21 6.10	3.57 3.42 3.36 3.25 3.14 3.03
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V	5MIN 271 242 229 208 186 164	173 162 157 147 137 127	15MIN 132 124 121 117 111 105 Consta	30MIN 79.9 78.3 77.3 75.4 73.4 71.3	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character	3HR 19.4 19.3 19.2 19.1 19.0 18.9	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25)	5HR 12.4 12.3 12.2 12.1 12.0 11.9	8.08 7.98 7.93 7.86 7.76 7.66	6.58 6.48 6.43 6.32 6.21 6.10	3.57 3.42 3.36 3.25 3.14 3.03
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V	5MIN 271 242 229 208 186 164 5MIN 3,250	173 162 157 147 137 127 10MIN 2,080	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ont Power 30MIN 959	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148	8.08 7.98 7.93 7.86 7.76 7.66	6.58 6.48 6.43 6.32 6.21 6.10	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900	173 162 157 147 137 127 10MIN 2,080 1,940	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25'0 4HR 181 180	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.70V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750	173 162 157 147 137 127 10MIN 2,080 1,940 1,871	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25 0 4HR 181 180 179	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.70V 1.75V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25') 4HR 181 180 179 178	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5.77 F) 5HR 148 147 146 145	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ont Power 30MIN 959 935 924 903 881	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181 180 179 178 177	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146 145 144	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ont Power 30MIN 959 935 924 903 881	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181 180 179 178 177	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146 145 144	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903 881 856	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 323	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25*6 4HR 181 180 179 178 177	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5.77 F) 5HR 148 147 146 145 144 143	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903 881 856	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25*6 4HR 181 180 179 178 177	5HR 12.4 12.3 12.2 12.1 12.0 11.9 3.77°F) 5HR 148 147 146 145 144 143	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ont Power 30MIN 959 935 924 903 881 856 Current D 30MIN	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 323 322	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181 180 179 178 177 176	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146 145 144 143	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 1,260	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903 881 856 Current D 30MIN 121	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 haracteris 2HR 39.9	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25°C 4HR 180 179 178 177 176	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5.77 F) 5HR 148 147 146 145 144 143	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.85V GP121 F.V/Time 1.60V 1.60V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 1,260	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903 881 856 Current D 30MIN 121 117	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Characteris 2HR 39.9 39.2	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25') 4HR 181 180 179 178 177 176	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5.77 F) 5HR 148 147 146 145 144 143	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30
F.V/Time 1.60V 1.67V 1.70V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.67V 1.75V 1.80V 1.75V 1.80V 1.75V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 197 187 183	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903 881 856 Current D 30MIN 121 117 116	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Character 2HR 39.9 39.2 38.9	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 3HR 29.0 28.6 28.4	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5 77 F) 5HR 148 147 146 145 144 143	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20
F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.75V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332 305	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236 222	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 197 187 183 175	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903 881 856 Current D 30MIN 121 117 116 113	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Character 2HR 39.9 39.2 38.9 38.4	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 3HR 29.0 28.6 28.4 27.9	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0 21.7	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146 145 144 143 143 5°C, 77°F) 5HR 18.6 18.3 18.2 17.9	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2 10HR 10.1 9.94 9.86 9.72	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20 5.10
F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332 305 276	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236 222 206	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 1,260	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 30MIN 959 935 924 903 881 856 Current D 30MIN 121 117 116 113 109	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Characteris 2HR 39.9 39.2 38.9 38.4 37.6	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 tics Unit: 4 3HR 29.0 28.6 28.4 27.9 27.3	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0 21.7 21.2	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146 145 144 143 143 5C, 77 F) 5HR 18.6 18.3 18.2 17.9 17.5	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9 8HR 12.3 12.1 12.0 11.8 11.5	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2 10HR 10.1 9.94 9.86 9.72 9.59	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20 5.10 5.00
F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.75V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332 305	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236 222	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 197 187 187 183 175 164 152	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 ant Power 30MIN 959 935 924 903 881 856 Current D 30MIN 121 117 116 113 109 103	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545 Sischarge C 1HR 70.1 68.8 68.1 66.8 65.4 63.5	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Characteris 2HR 39.9 39.2 38.9 38.4 37.6 36.6	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 stics Unit: 3HR 29.0 28.6 28.4 27.9 27.3 26.5	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25) 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0 21.7 21.2 20.7	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5.77 F) 5HR 148 147 146 145 144 143 143 18.2 17.9 17.5 17.1	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2 10HR 10.1 9.94 9.86 9.72	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20 5.10
F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.75V 1.80V 1.85V GP121 F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332 305 276 242	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236 222 206 185	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 197 187 183 175 164 152 Consta	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 71.3 71.3 75.9 935 924 903 881 856 Current D 30MIN 121 117 116 113 109 103 ant Power	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Characteris 2HR 39.9 39.2 38.9 38.4 37.6 36.6 Characteris	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 stics Unit: 3HR 29.0 28.6 28.4 27.9 27.3 26.5 stics Unit:	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25') 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0 21.7 21.2 20.7 Watts(25')	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146 145 144 143 5C. 77 F) 5HR 18.6 18.3 18.2 17.9 17.5 17.1	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9 8HR 12.3 12.1 12.0 11.8 11.5 11.3	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2 10HR 10.1 9.94 9.86 9.72 9.59 9.40	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20 5.10 5.00 4.80
F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.85V GP121 F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332 305 276 242	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236 222 206 185	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 197 187 183 175 164 152 Consta	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 71.3 71.3 75.9 935 924 903 881 856 Current D 30MIN 121 117 116 113 109 103 117 309 103 117 30MIN	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545 Secharge 1HR 70.1 68.8 68.1 66.8 65.4 63.5 Discharge 1HR	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Characteris 2HR 39.9 39.2 38.9 38.4 37.6 36.6 Characteri 2HR	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 tics Unit: 3HR 29.0 28.6 28.4 27.9 27.3 26.5 stics Unit: 3HR	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25') 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0 21.7 21.2 20.7 Watts(25') 4HR	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5 77 F) 5HR 148 147 146 145 144 143 143 5 C. 77 F) 5HR 18.6 18.3 18.2 17.9 17.5 17.1	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9 8HR 12.3 12.1 12.0 11.8 11.5 11.3	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2 10HR 10.1 9.94 9.86 9.72 9.59 9.40	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20 5.10 5.00 4.80
F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.85V GP121 F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332 305 276 242 5MIN 4023	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236 222 206 185	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 197 187 183 175 164 152 Consta 15MIN 2223	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 71.3 71.3 75.9 935 924 903 881 856 Current D 30MIN 121 117 116 113 109 103 117 116 113 109 103 117 116 113 109 103	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545 Sischarge C 1HR 70.1 68.8 68.1 66.8 65.4 63.5 Discharge 1HR 802	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Characteris 2HR 39.9 39.2 38.9 38.4 37.6 36.6 Characteri 2HR 459	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 stics Unit: 4 3HR 29.0 28.6 28.4 27.9 27.3 26.5 stics Unit: 3HR 335	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25') 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0 21.7 21.2 20.7 Watts(25') 4HR 263	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5HR 148 147 146 145 144 143 143 5C, 77 F) 5HR 18.6 18.3 18.2 17.9 17.5 17.1 5HR 216	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9 8HR 12.3 12.1 12.0 11.8 11.5 11.3	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2 10HR 10.1 9.94 9.86 9.72 9.59 9.40	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20 5.10 5.00 4.80
F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.75V 1.80V 1.85V GP121 F.V/Time 1.60V 1.67V 1.75V 1.80V 1.85V F.V/Time 1.60V 1.67V 1.75V 1.80V 1.75V 1.80V 1.75V 1.80V 1.85V	5MIN 271 242 229 208 186 164 5MIN 3,250 2,900 2,750 2,490 2,230 1,970 5MIN 374 346 332 305 276 242	173 162 157 147 137 127 10MIN 2,080 1,940 1,871 1,760 1,640 1,520 10MIN 257 242 236 222 206 185	15MIN 132 124 121 117 111 105 Consta 15MIN 1,580 1,503 1,460 1,400 1,330 1,260 Constant 15MIN 197 187 183 175 164 152 Consta	30MIN 79.9 78.3 77.3 75.4 73.4 71.3 71.3 71.3 75.9 935 924 903 881 856 Current D 30MIN 121 117 116 113 109 103 117 309 103 117 30MIN	1HR 47.2 46.9 46.7 46.4 45.9 45.4 Discharge 1HR 566 562 560 555 550 545 Secharge 1HR 70.1 68.8 68.1 66.8 65.4 63.5 Discharge 1HR	2HR 27.3 27.2 27.1 27.0 26.9 26.8 Character 2HR 327 326 325 324 323 322 Characteris 2HR 39.9 39.2 38.9 38.4 37.6 36.6 Characteri 2HR	3HR 19.4 19.3 19.2 19.1 19.0 18.9 stics Unit: 3HR 232 231 230 229 228 227 tics Unit: 3HR 29.0 28.6 28.4 27.9 27.3 26.5 stics Unit: 3HR	4HR 15.1 15.0 14.9 14.8 14.7 14.6 Watts(25') 4HR 181 180 179 178 177 176 Amperes(2 4HR 22.7 22.3 22.0 21.7 21.2 20.7 Watts(25') 4HR	5HR 12.4 12.3 12.2 12.1 12.0 11.9 5 77 F) 5HR 148 147 146 145 144 143 143 5 C. 77 F) 5HR 18.6 18.3 18.2 17.9 17.5 17.1	8.08 7.98 7.93 7.86 7.76 7.66 8HR 97.0 96.0 95.5 94.3 93.1 91.9 8HR 12.3 12.1 12.0 11.8 11.5 11.3	6.58 6.48 6.43 6.32 6.21 6.10 10HR 79.0 77.7 77.1 75.8 74.5 73.2 10HR 10.1 9.94 9.86 9.72 9.59 9.40	3.57 3.42 3.36 3.25 3.14 3.03 20HR 40.9 39.2 38.4 37.1 35.7 34.4 20HR 5.40 5.30 5.20 5.10 5.00 4.80

1.75V

1.80V

1.85V

59.5

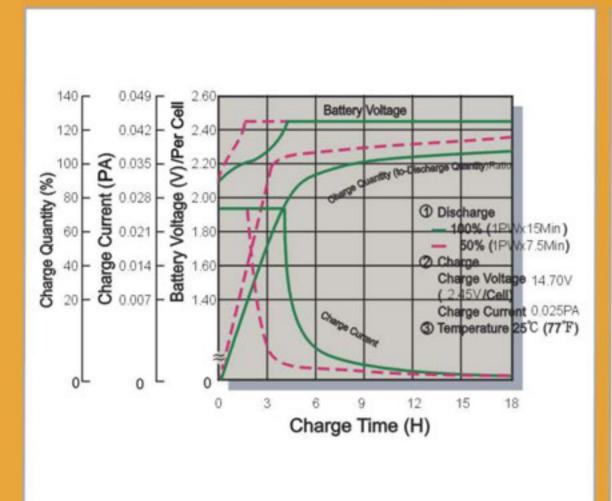
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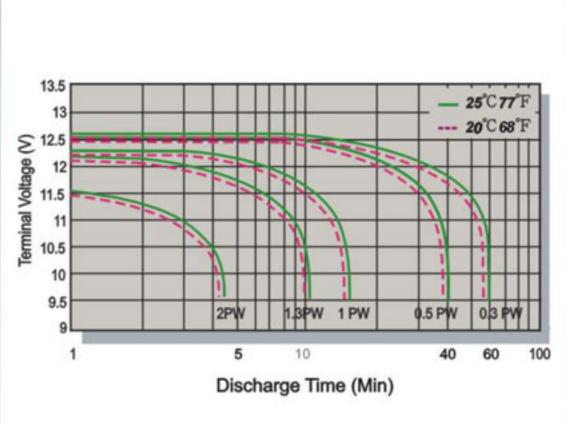
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GP1245(12V 16W) GP1272(12V28W)

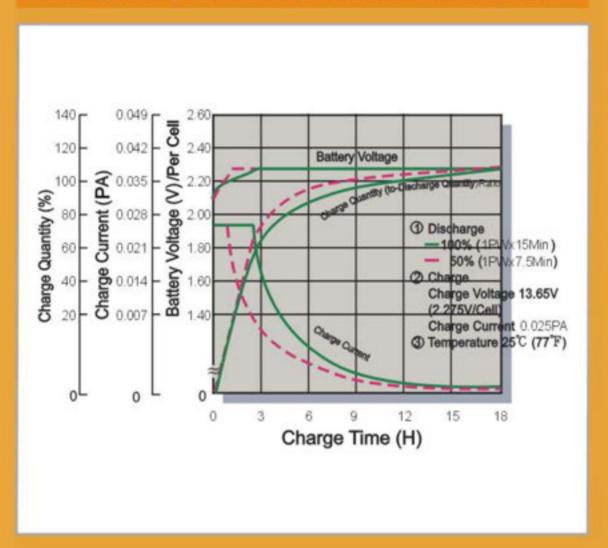
Battery Voltage and Charge Time for Cycle Use

Terminal Voltage (V) and Discharge Time





Battery Voltage and Charge Time for Standby Use



Spec	ificati	ons					

GP1245 (12V16W)	12	16.0	1.40	37.4	17.14	33.00	60/90	107.7±1.5	101.8±1.5	90.0±1.0	70.0±1.0	c	F1/F2	1.35	2.275V±0.025/CELL AT 25°C (77°F)	2.45V±0.05V/CELL AT 25°C (77°F)
GP1272 (12V28W)	12	28.7	2.10	45.5	20.00	21.00	100/130	100.0±1.0	94.0±1.0	151.0±2.0	65.0±1.0	е	F1/F2	2.16	Temp Coefficient	Temp Coefficient

GP1245(12V 16W)													
	Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)												
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN			
1.60V	30.3	19.6	15.0	12.5	10.8	8.24	6.32	4.26	2.29	1.60			
1.67V	28.1	18.5	14.3	12.0	10.4	8.02	6.11	4.14	2.22	1.55			
1.70V	26.9	18.0	13.9	11.8	10.2	7.80	6.02	4.06	2.19	1.53			
1.75V	24.9	17.0	13.3	11.4	9.86	7.60	5.85	3.97	2.14	1.49			
1.80V	22.6	15.7	12.6	10.9	9.52	7.36	5.66	3.87	2.08	1.44			
1.85V	20.2	14.5	11.8	10.4	9.16	7.12	5.46	3.77	2.01	1.38			
			Constant Po	wer Dischar	ge Characteri	stics Unit:Wa	atts(25°C, 77°I						
F.V/Time	2MIN	4MIN	6MIN	NIM8	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN			
1.60V	329	223	170	142	123	96.7	74.2	50.1	27.3	19.0			
1.67V	306	210	163	138	120	96.0	72.4	49.0	26.7	18.6			
1.70V	295	204	159	135	119	95.0	71.5	48.5	26.5	18.4			
1.75V	275	194	153	131	116	94.1	69.8	47.7	26.0	18.0			
1.80V	255	182	147	127	113	90.5	68.0	46.8	25.4	17.7			
1.85V	233	169	139	121	109	86.9	65.4	45.6	24.8	17.3			

GP1272	GP1272(12V28W)												
	Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)												
F.V/Time	2MIN	4MIN	6MIN	NIM8	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN			
1.60V	58.3	39.7	29.9	24.1	20.8	15.0	12.0	8.73	4.98	3.52			
1.67V	52.8	36.8	28.3	23.5	20.4	14.9	11.9	8.65	4.95	3.50			
1.70V	50.2	35.4	27.5	23.0	20.1	14.7	11.8	8.61	4.92	3.48			
1.75V	45.7	32.6	26.0	22.1	19.5	14.4	11.6	8.53	4.89	3.46			
1.80V	41.1	29.8	24.4	20.7	18.5	13.9	11.2	8.26	4.81	3.41			
1.85V	36.5	27.3	22.7	19.3	17.1	13.0	10.6	7.92	4.63	3.31			
			Constant Po	wer Dischar	ge Characteri	stics Unit:Wa	atts(25°C, 77°I						
F.V/Time	2MIN	4MIN	6MIN	NIM8	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN			
1.60V	595	410	318	268	232	174	139	101	58.5	41.8			
1.67V	552	387	305	262	229	172	138	100	58.1	41.6			
1.70V	532	373	298	260	226	171	137	99.3	57.8	41.4			
1.75V	499	350	286	249	220	168	135	98.8	57.4	41.1			
1.80V	464	327	272	237	212	162	132	96.8	56.4	40.6			
1.85V	425	305	256	220	197	152	125	93.1	54.9	39.6			







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