

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL750

CPD (W/Cell)

Approval			
Quality Manager	Date	Technical Manager	Date

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	287	250	223	202	183	166	152	139	129	105	88	67	52	43	38
1.6	269	239	216	196	179	163	149	138	128	105	88	66	52	42	38
1.65	254	229	209	191	176	160	147	136	127	105	87	66	51	42	38
1.7	239	217	200	183	168	155	143	132	124	103	87	66	51	42	38
1.75	221	203	188	173	159	146	136	127	120	100	85	65	50	42	37
1.8	203	190	176	162	148	135	127	120	114	97	82	63	48	41	37
1.85	168	154	144	136	130	124	118	112	106	90	77	59	45	39	36
1.9	138	133	129	124	118	112	105	97	92	81	70	53	40	36	33

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	29.2	23.2	19.0	16.3	13.5	12.0	9.9	8.3	7.5	6.0	4.1	3.2
1.6	28.3	23.1	18.6	15.7	13.4	11.8	9.7	8.1	7.5	5.8	4.0	3.1
1.65	28.2	23.0	18.5	15.6	13.3	11.7	9.5	7.9	7.3	5.7	3.9	3.0
1.7	28.0	22.9	18.4	15.5	13.3	11.5	9.4	7.8	7.2	5.6	3.8	2.9
1.75	27.7	22.8	18.3	15.2	13.1	11.3	9.4	7.8	7.0	5.5	3.8	2.9
1.8	27.0	22.4	17.9	14.9	12.9	11.3	9.3	7.8	6.9	5.4	3.7	2.8
1.85	26.2	21.8	17.1	14.6	12.8	11.0	9.2	7.6	6.8	5.3	3.7	2.8
1.9	24.5	19.2	15.4	12.9	11.3	9.82	9.1	7.6	6.8	5.3	3.6	2.8

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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Table For The SWL780V

CPD (W/Cell)

VPC	Time (Minutes)															
	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	301	300	270	240	213	194	177	161	149	138	107	89	63	53	45	39
1.6	277	276	250	225	205	187	172	157	145	136	106	89	63	53	45	39
1.65	260	259	238	216	199	181	167	153	142	133	104	88	63	53	45	39
1.7	246	245	225	204	187	172	159	147	137	129	102	87	62	52	44	39
1.75	231	230	210	194	176	160	148	138	130	124	99	86	62	52	44	38
1.8	216	215	193	175	158	144	136	129	123	115	94	82	60	50	43	38
1.85	183	182	166	152	141	132	124	117	110	105	89	76	57	48	41	36
1.9	129	128	125	122	115	110	104,2	99	96	92	80	67	53	43	38	33

VPC	Time (Hours)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	28.3	22.1	18.4	15.7	13.7	12.2	10.1	8.6	7.5	5.5	3.8	2.9
1.6	28.2	22.1	18.4	15.6	13.6	12.2	10.0	8.6	7.5	5.5	3.8	2.9
1.65	28.1	22.0	18.3	15.6	13.6	12.1	10.0	8.5	7.5	5.5	3.8	2.9
1.7	28.0	21.9	18.2	15.5	13.5	12.0	9.9	8.5	7.4	5.4	3.7	2.9
1.75	27.7	21.7	18.1	15.4	13.5	12.0	9.9	8.4	7.4	5.4	3.7	2.9
1.8	27.1	21.3	17.8	15.2	13.2	11.8	9.7	8.3	7.2	5.3	3.7	2.8
1.85	25.9	20.4	17.1	14.7	12.8	11.4	9.4	8.0	7.0	5.1	3.5	2.7
1.9	23.7	18.8	15.9	13.7	12.0	10.7	8.8	7.5	6.6	4.8	3.3	2.5

ISY Use Only

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL1100

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	428	367	326	295	270	250	233	218	205	162	129	95	78	67	59
1.6	394	346	311	285	263	244	227	213	200	160	129	94	78	67	59
1.65	373	331	301	276	256	238	222	209	196	158	128	94	77	67	58
1.7	350	314	287	264	245	228	214	201	190	154	127	93	77	66	58
1.75	322	294	270	249	232	217	204	192	181	148	124	92	76	65	57
1.8	297	276	257	240	224	209	196	183	172	141	119	88	74	64	56
1.85	252	228	211	196	185	174	166	158	151	132	110	84	71	61	52
1.9	176	167	161	155	151	148	144	141	138	120	98	77	65	56	50

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	43.2	34.2	28.3	24.5	21.5	19.2	16.2	14.0	12.5	10.0	6.9	5.3
1.6	42.7	33.7	28.0	24.2	21.2	18.8	15.8	13.7	12.2	9.7	6.6	5.1
1.65	42.2	33.3	27.7	24.0	20.8	18.5	15.5	13.5	12.2	9.3	6.4	4.9
1.7	41.8	32.8	27.3	23.8	20.7	18.3	15.3	13.3	11.8	9.0	6.2	4.7
1.75	41.5	32.5	27.2	23.7	20.5	18.2	15.2	13.2	11.7	8.8	6.1	4.6
1.8	40.5	31.7	26.5	23.2	20.3	18.0	15.0	13.0	11.5	8.7	6.0	4.6
1.85	38.2	30.2	25.5	22.3	19.7	17.8	14.8	12.8	11.3	8.5	5.8	4.5
1.9	34.7	28.0	23.8	21.0	18.5	16.7	14.2	12.0	10.6	8.3	5.7	4.4

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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL1800

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	657	589	538	496	455	417	384	356	331	259	215	161	129	108	93
1.6	604	553	513	476	440	406	377	351	329	257	213	160	128	108	93
1.65	574	530	493	458	424	394	367	343	322	256	211	158	127	107	92
1.7	547	504	465	431	401	374	351	330	312	253	210	157	126	106	92
1.75	507	453	417	389	365	345	328	312	298	245	205	155	125	106	91
1.8	446	406	376	354	335	319	305	292	280	232	196	150	122	102	88
1.85	340	327	317	309	301	294	287	279	271	231	191	141	116	98	85
1.9	315	299	287	276	264	253	244	234	225	187	160	129	107	90	78

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	65.8	52.2	44.3	38.8	34.2	31.6	25.7	21.5	18.5	13.2	9.2	7.1
1.6	65.3	51.8	44.0	38.5	33.8	30.9	25.3	21.3	18.3	13.1	9.1	7.1
1.65	64.8	51.5	43.8	38.3	33.5	30.7	25.2	21.2	18.2	13.0	9.1	7.0
1.7	64.5	51.3	43.7	38.2	33.3	30.6	25.0	21.0	18.0	12.9	9.0	6.9
1.75	63.5	50.8	43.3	38.0	33.2	30.4	24.8	20.8	17.8	12.9	9.0	6.9
1.8	61.7	49.7	42.5	37.3	32.3	30.0	24.5	20.5	17.7	12.8	8.9	6.8
1.85	60.3	48.5	41.3	36.0	31.0	29.0	23.7	20.0	17.2	12.4	8.7	6.7
1.9	55.7	45.2	38.5	33.2	29.0	26.8	21.8	18.7	16.1	11.8	8.2	6.2

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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL1850

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	642	569	515	471	433	401	373	348	326	255	210	154	126	110	97
1.6	592	536	491	453	420	390	364	341	319	254	210	153	125	109	96
1.65	559	511	472	437	411	386	362	340	318	252	209	153	125	109	96
1.7	515	489	462	437	405	378	354	332	313	247	209	153	124	108	95
1.75	485	450	420	392	367	344	323	304	287	240	205	150	124	108	94
1.8	372	342	321	305	291	279	270	261	252	232	196	149	122	106	93
1.85	293	279	270	262	256	250	245	241	236	218	180	141	117	102	90
1.9	286	271	260	252	245	239	233	227	220	194	158	129	108	94	83

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	70.3	54.7	45.7	40.0	35.7	32.0	27.3	23.7	20.7	16.7	11.5	8.8
1.6	70.0	54.2	45.2	39.7	35.3	31.7	27.0	23.3	20.3	16.3	11.2	8.6
1.65	69.7	53.7	44.7	39.3	35.0	31.3	26.7	23.0	20.0	16.0	11.0	8.4
1.7	69.3	53.3	44.3	39.0	34.7	31.0	26.3	22.7	19.7	15.7	10.8	8.2
1.75	69.0	53.0	44.0	38.7	34.3	30.7	26.0	22.3	19.3	15.3	10.5	8.0
1.8	67.7	52.7	43.7	38.3	34.0	30.5	25.8	22.2	19.5	15.2	10.4	8.0
1.85	65.7	51.7	43.3	37.7	33.7	30.3	25.7	22.0	18.7	15.0	10.3	7.9
1.9	61.3	48.7	41.0	35.7	32.0	28.7	24.7	21.0	18.3	14.8	10.2	7.8

PRODUCT SPECIFICATION

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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL1850-6

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5											385	274	230	201	178
1.6											384	273	229	201	177
1.65											384	272	228	200	175
1.7											383	272	227	199	174
1.75											375	266	226	198	172
1.8											359	265	223	195	171
1.85											329	252	214	186	164
1.9											289	230	197	172	152

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	135.1	108.3	90.5	79.2	70.7	63.4	54.1	46.9	42.2	33.1	22.7	17.3
1.6	134.6	107.3	89.5	78.6	69.9	62.8	53.5	46.1	41.4	32.3	22.2	17.0
1.65	134.0	106.3	88.5	77.8	69.3	62.0	52.9	45.5	40.8	31.7	21.8	16.6
1.7	133.2	105.5	87.7	77.2	68.7	61.4	52.1	44.9	40.2	31.1	21.3	16.3
1.75	132.6	104.9	87.1	76.6	67.9	60.8	51.5	44.2	39.4	30.3	20.8	15.9
1.8	130.1	104.3	86.5	75.8	67.3	60.4	51.1	44.0	38.7	30.1	20.6	15.8
1.85	126.3	102.4	85.7	74.6	66.7	60.0	50.9	43.6	38.1	29.7	20.4	15.6
1.9	117.8	96.4	81.2	70.7	63.4	56.8	48.9	41.6	37.3	29.3	20.2	15.4

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL2250 FR

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	678	613	578	548	516	481	448	418	379	308	253	184	150	129	112
1.6	631	582	552	524	492	460	428	400	375	307	251	182	149	128	112
1.65	620	578	547	517	483	451	420	393	370	305	249	180	148	127	111
1.7	606	565	532	497	463	432	404	380	359	300	248	177	146	126	110
1.75	585	541	502	464	433	405	380	359	341	289	242	176	145	125	109
1.8	526	506	475	440	404	372	350	333	318	272	230	174	144	124	108
1.85	497	453	400	372	350	333	318	306	293	253	213	165	137	117	104
1.9	368	352	336	321	306	294	282	271	260	224	190	151	125	111	96

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	83.0	66.4	55.6	48.6	43.4	38.9	33.3	28.8	26.0	20.3	13.9	10.7
1.6	82.7	65.9	54.9	48.2	43.0	38.5	32.8	28.4	25.5	19.9	13.6	10.4
1.65	82.3	65.3	54.3	47.8	42.6	38.1	32.4	28.0	25.1	19.5	13.4	10.2
1.7	81.9	64.9	53.9	47.4	42.2	37.7	32.0	27.6	24.6	19.1	13.1	10.0
1.75	81.5	64.5	53.5	47.0	41.8	37.3	31.6	27.2	24.2	18.6	12.8	9.8
1.8	79.9	64.1	53.1	46.6	41.4	37.1	31.4	27.0	23.8	18.4	12.7	9.7
1.85	77.5	62.8	52.7	45.8	40.9	36.9	31.2	26.8	23.4	18.2	12.5	9.6
1.9	72.4	59.2	49.9	43.4	38.9	34.9	30.0	25.5	23.0	18.0	12.4	9.5

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL2300

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	609	608	607	606	552	521	485	448	416	307	252	196	157	130	112
1.6	574	573	572	571	525	494	462	429	400	303	253	194	156	129	111
1.65	547	546	545	544	511	480	447	416	386	297	249	193	155	129	111
1.7	523	522	521	520	491	457	425	393	366	287	243	191	154	127	110
1.75	497	496	495	494	460	422	389	361	341	273	235	188	152	126	109
1.8	452	451	450	449	405	371	345	325	308	255	225	182	147	122	106
1.85	362	361	360	359	332	310	293	280	270	234	211	171	138	116	101
1.9	237	236	235	234	231	228	225	223	220	209	194	155	124	105	92

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	80.7	63.5	53.1	45.7	40.3	36.0	29.8	25.3	22.0	19.55	16.1	10.72	8.04
1.6	80.33	63.29	52.85	45.52	40.09	35.90	29.67	25.19	21.92	19.47	16.02	10.68	8.01
1.65	80.00	63.04	52.65	45.36	39.95	35.73	29.54	25.08	21.85	19.41	15.99	10.66	7.99
1.7	79.57	62.71	52.39	45.19	39.76	35.57	29.38	24.95	21.74	19.31	15.89	10.59	7.95
1.75	78.69	62.14	51.93	44.81	39.43	35.24	29.11	24.70	21.52	19.12	15.74	10.49	7.87
1.8	77.05	60.99	51.07	44.04	38.78	34.66	28.59	24.26	21.15	18.81	15.45	10.30	7.72
1.85	73.33	58.36	49.04	42.34	37.32	33.43	27.53	23.41	20.42	18.15	14.84	9.89	7.42
1.9	66.43	53.27	45.03	39.06	34.59	31.00	25.49	21.68	18.94	16.88	13.75	9.17	6.87

ISY Use Only

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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table for SWL2500

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	768	758	748	703	625	568	543	520	502	378	305	237	191	160	136
1.6	763	751	717	649	583	553	532	513	490	373	303	236	188	158	135
1.65	757	733	668	605	562	542	522	505	477	370	302	233	186	155	132
1.7	737	680	613	568	545	526	508	488	453	363	299	223	180	150	131
1.75	673	605	565	542	522	503	483	452	430	347	294	221	179	148	131
1.8	547	530	517	507	495	463	435	417	400	320	285	216	175	146	125
1.85	515	502	488	452	432	412	397	382	368	290	276	205	164	138	120
1.9	390	382	377	372	367	363	360	353	340	268	251	187	152	127	109

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	97.3	74.7	62.1	54.2	47.9	42.5	35.6	30.6	27.0	20.1	14.0	10.7
1.6	95.3	74.2	61.7	53.7	47.5	42.3	35.3	30.3	26.7	19.3	13.2	10.0
1.65	92.9	73.4	61.5	53.4	47.2	42.2	35.2	30.2	26.5	19.3	13.2	10.0
1.7	92.7	73.3	61.3	53.2	47.0	42.2	35.0	30.2	26.5	19.3	13.2	10.0
1.75	92.0	72.5	61.0	52.9	46.7	41.7	34.8	30.0	26.3	19.2	13.0	9.9
1.8	91.3	71.7	60.5	52.6	46.3	41.3	34.5	29.8	26.2	19.0	12.8	9.7
1.85	87.3	68.3	56.9	47.6	43.5	39.2	33.2	28.8	25.3	18.5	12.5	9.5
1.9	80.2	64.2	54.6	46.5	42.2	37.7	31.7	27.2	23.7	17.3	11.7	9.0

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table For The SWL2500E

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	768	758	748	703	625	568	543	520	502	378	305	237	191	160	136
1.6	763	751	717	649	583	553	532	513	490	373	303	236	188	158	135
1.65	757	733	668	605	562	542	522	505	477	370	302	233	186	155	132
1.7	737	680	613	568	545	526	508	488	453	363	299	223	180	150	131
1.75	673	605	565	542	522	503	483	452	430	347	294	221	179	148	131
1.8	547	530	517	507	495	463	435	417	400	320	285	216	175	146	125
1.85	515	502	488	452	432	412	397	382	368	290	276	205	164	138	120
1.9	390	382	377	372	367	363	360	353	340	268	251	187	152	127	109

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	97.3	74.7	62.1	54.2	47.9	42.5	35.6	30.6	27.0	20.1	14.0	10.7
1.6	95.3	74.2	61.7	53.7	47.5	42.3	35.3	30.3	26.7	19.3	13.2	10.0
1.65	92.9	73.4	61.5	53.4	47.2	42.2	35.2	30.2	26.5	19.3	13.2	10.0
1.7	92.7	73.3	61.3	53.2	47.0	42.2	35.0	30.2	26.5	19.3	13.2	10.0
1.75	92.0	72.5	61.0	52.9	46.7	41.7	34.8	30.0	26.3	19.2	13.0	9.9
1.8	91.3	71.7	60.5	52.6	46.3	41.3	34.5	29.8	26.2	19.0	12.8	9.7
1.85	87.3	68.3	56.9	47.6	43.5	39.2	33.2	28.8	25.3	18.5	12.5	9.5
1.9	80.2	64.2	54.6	46.5	42.2	37.7	31.7	27.2	23.7	17.3	11.7	9.0

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Table For The SWL2500-6

CPD (W/Cell)

VPC	Time (Minutes)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	1249	1247	1241	1228	1189	1152	1089	1027	959	707	579	436	353	300	263
1.6	1161	1160	1159	1158	1133	1092	1037	983	922	696	573	432	351	299	261
1.65	1150	1149	1148	1147	1110	1055	1005	946	887	676	563	429	349	297	260
1.7	1126	1125	1124	1123	1061	1013	953	889	831	649	548	424	346	296	258
1.75	1059	1058	1057	1056	998	932	862	806	758	615	527	413	340	290	254
1.8	960	959	958	957	873	805	754	711	680	570	499	395	327	281	247
1.85	728	727	726	725	673	653	625	604	589	519	463	368	306	265	232
1.9	535	534	533	532	529	529	525	517	514	466	413	329	276	238	206

VPC	Time (Hours)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	186.30	147.40	123.70	106.30	91.73	80.51	65.60	55.99	49.17	44.02	36.40	24.27	18.20
1.6	185.40	146.77	123.18	105.83	91.37	80.19	65.34	55.77	48.98	43.84	36.26	24.2	18.1
1.65	184.52	146.27	122.66	105.39	90.99	79.86	65.14	55.60	48.79	43.76	36.09	24.1	18.0
1.7	183.43	145.29	121.87	104.74	90.43	79.37	64.81	55.27	48.55	43.51	35.83	23.9	17.9
1.75	181.24	143.97	120.82	103.64	89.58	78.71	64.22	54.83	48.13	43.10	35.44	23.6	17.7
1.8	176.64	140.53	118.19	101.23	87.51	77.15	63.03	53.74	47.14	42.15	34.45	23.0	17.2
1.85	166.79	133.63	112.67	96.30	83.28	73.61	60.27	51.43	45.07	40.34	32.57	21.7	16.3
1.9	150.16	121.32	101.89	86.55	75.39	66.94	55.13	47.26	41.64	37.13	29.71	19.8	14.9

ISY Use Only

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Discharge Table For The SWL3300

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5															
1.6				767	697	646	608	578	550	433	359	273	220	183	158
1.65				714	657	621	590	559	533	423	353	271	219	182	157
1.7				666	622	591	561	535	509	412	346	267	216	180	155
1.75				607	579	551	520	497	477	395	333	262	213	177	153
1.8				554	522	495	471	455	443	368	314	250	206	173	149
1.85				470	446	434	424	416	400	335	291	234	194	164	141
1.9				403	401	395	376	366	350	298	266	213	175	149	128
1.95				303	294	288	279	277	275	259	230	180	152	127	109

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5												
1.6	114.63	89.61	74.54	64.56	57.22							
1.65	113.98	89.21	74.28	64.34	56.99	50.83	42.16	35.82	30.86	21.97	15.17	11.77
1.7	113.11	88.64	73.82	64.07	56.71	50.54	41.97	35.63	30.70	21.83	15.08	11.73
1.75	111.60	87.58	73.11	63.47	56.20	50.17	41.67	35.33	30.44	21.69	15.00	11.66
1.8	108.77	85.62	71.67	62.38	55.21	49.31	41.02	34.70	29.93	21.32	14.78	11.51
1.85	103.13	81.70	68.79	60.25	53.11	47.51	39.34	33.47	28.99	20.90	14.44	11.20
1.9	94.07	75.17	63.76	55.62	49.13	44.15	36.66	31.01	26.95	19.58	13.52	10.49
1.95												

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Table For The SWL3800

CPD (W/Cell)

VPC	Time (Minutes)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5															
1.6	*971	*970	*969	*968	*889	*829	*780	*737	*701	*568	*478	*362	*294	*244	*210
1.65	*919	*918	*917	*916	*851	*797	*754	*716	*683	*558	*472	*359	*293	*243	*209
1.7	*858	*857	*856	*855	*798	*754	*717	*684	*654	*541	*460	*353	*290	*241	*208
1.75	*788	*787	*786	*785	*741	*706	*674	*646	*621	*518	*443	*343	*284	*236	*204
1.8	*713	*712	*711	*710	*679	*651	*627	*602	*580	*486	*416	*327	*273	*230	*201
1.85	*644	*643	*642	*641	*620	*599	*577	*556	*535	*446	*381	*305	*252	*215	*185
1.9	*586	*585	*584	*583	*565	*544	*523	*501	*480	*393	*337	*276	*223	*192	*169

VPC	Time (Hours)											
	1.5	2	2.5	3	3.5	4	5	6	7	10	15	20
1.5	131.2	103.7	85.5	73.4	64.4	57.5	47.5	40.2	34.9	25.3	17.6	13.6
1.6	130.1	103.1	85.0	73.0	64.0	57.2	47.1	39.8	34.5	24.9	17.4	13.4
1.65	129.3	102.7	84.8	72.8	63.8	57.0	46.7	39.5	34.3	24.6	17.2	13.4
1.7	128.2	102.1	84.4	72.5	63.5	56.7	46.5	39.3	34.1	24.5	17.1	13.3
1.75	127.0	101.2	83.7	72.0	63.0	56.1	46.1	38.9	33.7	24.2	16.9	13.2
1.8	124.2	99.2	82.1	70.8	61.8	55.1	45.2	38.1	32.9	23.8	16.6	13.0
1.85	119.0	94.5	78.6	67.7	59.2	52.9	43.3	36.5	31.5	22.7	16.0	12.6
1.9	108.0	85.7	71.7	61.6	54.3	48.5	39.9	33.9	29.4	21.3	14.9	11.5

ISY Use Only

PRODUCT SPECIFICATION

BATTERY TYPE	SWL RANGE
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SPECIFICATION	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Typical Constant Power Table For The SWL4250

CPD (W/Cell)

VPC	Time (Minutes)															
	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.50	1056	1055	1054	1053	1052	965	896	838	789	743	596	491	367	294	247	214
1.60	963	962	961	960	959	899	842	793	749	711	585	484	366	293	246	212
1.65	920	919	918	917	916	859	806	761	720	690	572	479	364	291	245	212
1.70	874	873	872	871	870	811	760	715	686	662	551	467	359	288	243	210
1.75	818	817	816	815	814	744	696	673	651	625	524	448	348	282	239	208
1.80	704	703	702	701	700	682	659	631	606	580	487	422	332	272	232	202
1.85	685	684	683	682	681	635	595	566	544	523	442	389	307	253	217	189
1.90	570	569	568	567	566	543	517	493	470	455	394	343	271	226	194	170

VPC	Time (Hours)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.50	150.1	119.3	99.8	86.3	76.0	68.2	56.7	48.2	41.7	30.0	20.7	15.9
1.60	149.2	118.9	99.5	86.0	75.8	67.9	56.5	47.9	41.5	29.9	20.6	15.8
1.65	148.7	118.6	99.4	85.9	75.7	67.8	56.3	47.7	41.3	29.7	20.5	15.8
1.70	148.2	118.2	99.1	85.6	75.4	67.5	56.0	47.4	41.0	29.5	20.4	15.7
1.75	147.5	117.6	98.5	85.1	74.8	67.0	55.5	46.9	40.6	29.2	20.3	15.6
1.80	145.2	115.8	97.1	83.9	73.6	65.8	54.4	46.1	40.0	28.9	20.1	15.5
1.85	139.0	111.0	93.4	80.7	70.9	63.4	52.4	44.6	38.8	28.2	19.6	15.1
1.90	127.1	102.2	86.2	74.4	65.6	58.8	48.6	41.6	36.4	26.6	18.4	14.2

ISY Use Only

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL750

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	281	244	218	197	179	162	148	136	126	97	81	62	48	38	34
1.6	264	233	211	192	175	160	146	135	125	97	81	62	48	38	34
1.65	249	224	204	187	172	157	144	133	124	97	81	61	48	38	33
1.7	234	213	195	179	165	151	139	129	121	95	81	61	47	38	33
1.75	216	198	184	169	155	143	133	125	118	93	79	60	46	38	33
1.8	198	185	172	158	145	132	124	117	111	90	76	58	45	37	33
1.85	165	151	141	133	127	122	115	110	104	84	72	55	41	35	31
1.9	135	130	126	122	116	110	102	95	90	75	65	49	37	33	29

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	28.9	22.9	19.8	16.7	13.4	11.9	9.7	8.2	7.4	5.9	4.1	3.1
1.6	28.1	22.9	19.3	16.0	13.3	11.7	9.5	8.0	7.4	5.8	4.0	3.0
1.65	27.9	22.8	19.2	15.9	13.2	11.6	9.3	7.8	7.3	5.6	3.9	2.9
1.7	27.7	22.7	19.1	15.8	13.1	11.4	9.2	7.8	7.1	5.5	3.8	2.9
1.75	27.4	22.6	19.0	15.5	13.0	11.2	9.2	7.7	6.9	5.4	3.7	2.9
1.8	26.7	22.5	18.6	15.2	12.8	11.1	9.1	7.6	6.8	5.4	3.7	2.8
1.85	25.9	21.6	17.8	14.9	12.6	10.9	9.0	7.5	6.8	5.3	3.6	2.8
1.9	24.3	19.8	16.0	13.2	11.1	9.7	8.9	7.4	6.7	5.2	3.6	2.7

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Table For The SWL780V

CPD (W/Cell)

VPC	Time (Minutes)															
	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	289	288	260	231	204	186	170	155	143	133	102	85	61	51	43	38
1.6	266	265	240	216	196	180	165	151	139	130	101	85	61	51	43	38
1.65	250	249	229	207	191	174	160	147	136	128	100	85	60	51	43	37
1.7	236	235	216	196	180	165	153	141	132	124	98	84	60	50	43	37
1.75	222	221	201	186	169	154	142	133	125	119	95	82	59	50	42	37
1.8	207	206	185	168	151	139	131	123	118	111	91	79	58	48	41	36
1.85	176	175	160	146	136	127	119	112	106	101	86	73	55	46	39	34
1.9	124	123	120	117	110	105	100	95	92	89	77	65	51	42	36	31

VPC	Time (Hours)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	27.7	21.7	18.0	15.4	13.4	12.0	9.9	8.4	7.4	5.4	3.7	2.8
1.6	27.6	21.6	18.0	15.3	13.4	11.9	9.8	8.4	7.3	5.4	3.7	2.8
1.65	27.5	21.6	17.9	15.3	13.3	11.9	9.8	8.3	7.3	5.4	3.7	2.8
1.7	27.4	21.4	17.8	15.2	13.3	11.8	9.7	8.3	7.3	5.3	3.7	2.8
1.75	27.1	21.2	17.7	15.1	13.2	11.7	9.7	8.3	7.2	5.3	3.7	2.8
1.8	26.5	20.8	17.4	14.9	13.0	11.5	9.5	8.1	7.1	5.2	3.6	2.8
1.85	25.4	20.0	16.7	14.4	12.6	11.2	9.2	7.8	6.8	5.0	3.5	2.7
1.9	23.2	18.5	15.5	13.4	11.8	10.5	8.6	7.4	6.4	4.7	3.2	2.5

	ISY Use Only
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PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL1100

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	392	337	298	270	248	229	213	199	187	141	113	82	68	59	51
1.6	361	317	285	261	241	223	208	195	183	139	112	82	68	58	51
1.65	342	303	276	253	234	218	204	191	180	137	111	81	67	58	51
1.7	320	288	263	242	224	209	196	184	174	134	110	81	67	58	50
1.75	295	269	247	228	213	199	186	176	166	129	108	80	66	57	49
1.8	272	252	235	219	205	192	179	168	157	122	103	77	64	56	48
1.85	231	209	193	180	169	160	152	145	138	115	96	73	61	53	45
1.9	161	153	147	142	138	135	132	129	127	105	86	67	57	49	43

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	42.7	33.8	28.1	24.3	21.3	19.0	16.0	13.9	12.0	9.9	6.8	5.2
1.6	42.2	33.3	27.7	23.9	21.0	18.6	15.7	13.5	11.7	9.6	6.6	5.0
1.65	41.7	33.0	27.4	23.8	20.6	18.3	15.3	13.4	11.7	9.2	6.3	4.9
1.7	41.4	32.5	27.1	23.6	20.5	18.2	15.2	13.2	11.4	8.9	6.1	4.7
1.75	41.1	32.2	26.9	23.4	20.3	18.0	15.0	13.0	11.2	8.7	6.0	4.6
1.8	40.1	31.4	26.2	22.9	20.1	17.8	14.9	12.9	11.1	8.6	5.9	4.5
1.85	37.8	29.9	25.2	22.1	19.5	17.7	14.7	12.7	10.9	8.4	5.8	4.4
1.9	34.3	27.7	23.6	20.8	18.3	16.5	14.0	11.9	10.2	8.3	5.7	4.3

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL1800

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	597	539	493	452	412	377	347	323	302	237	198	148	117	97	83
1.6	551	511	477	443	406	373	344	320	300	252	197	147	117	97	83
1.65	523	491	461	429	397	366	338	314	296	250	196	146	117	96	82
1.7	496	457	416	386	360	338	320	304	289	233	196	146	116	96	82
1.75	446	405	376	352	334	317	303	291	279	230	193	145	116	95	81
1.8	399	367	344	324	309	295	283	271	261	218	184	140	112	91	77
1.85	323	311	302	293	276	263	250	239	229	192	167	132	107	90	77
1.9	280	257	241	228	218	209	201	194	189	165	148	121	99	81	69

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	58.2	47.4	41.2	36.3	32.2	28.8	24.1	20.4	17.8	12.5	8.4	6.5
1.6	57.7	47.1	40.8	36.2	31.8	28.6	24.0	20.2	17.7	12.5	8.4	6.5
1.65	57.6	46.9	40.7	36.0	31.5	28.5	23.8	20.0	17.5	12.4	8.4	6.4
1.7	57.4	46.8	40.5	35.9	31.4	28.3	23.6	19.9	17.4	12.4	8.3	6.4
1.75	56.3	46.1	40.2	35.5	31.2	28.1	23.3	19.7	17.2	12.4	8.3	6.4
1.8	54.7	45.0	39.2	34.9	30.7	27.7	22.8	19.5	17.0	12.3	8.3	6.3
1.85	54.0	44.7	38.6	33.8	29.4	26.7	22.0	18.7	16.2	11.9	8.1	6.1
1.9	50.6	42.0	36.0	30.9	27.5	24.9	20.1	17.1	15.0	11.1	7.6	5.7

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL1850

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	620	549	497	455	418	387	360	336	314	234	193	137	115	101	89
1.6	571	517	474	437	405	376	351	329	308	232	192	136	115	100	88
1.65	540	493	455	422	397	373	350	328	307	231	192	136	114	100	88
1.7	497	472	446	422	391	365	342	321	302	226	192	136	114	99	87
1.75	469	435	405	378	354	332	312	293	277	220	188	133	113	99	86
1.8	359	330	310	294	281	270	260	252	244	212	179	133	112	97	86
1.85	283	270	260	253	247	242	237	233	228	199	165	126	107	93	82
1.9	276	262	251	243	236	230	225	219	212	178	145	115	99	86	76

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	69.6	54.2	45.2	39.6	35.3	31.7	27.0	23.5	20.5	16.5	11.3	8.7
1.6	69.3	53.7	44.7	39.3	34.9	31.4	26.7	23.1	20.1	16.1	11.1	8.5
1.65	69.0	53.2	44.3	38.9	34.7	31.0	26.4	22.8	19.8	15.8	10.9	8.3
1.7	68.6	52.8	43.9	38.6	34.4	30.7	26.0	22.5	19.5	15.5	10.7	8.1
1.75	68.3	52.5	43.6	38.3	34.0	30.4	25.7	22.1	19.1	15.1	10.4	8.0
1.8	67.0	52.2	43.3	37.9	33.7	30.2	25.5	22.0	18.8	15.0	10.3	7.9
1.85	65.0	51.2	42.9	37.3	33.4	30.0	25.4	21.8	18.5	14.9	10.2	7.8
1.9	60.7	48.2	40.6	35.3	31.7	28.4	24.5	20.8	18.1	14.7	10.1	7.7

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL1850-6

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5											385	274	230	201	178
1.6											384	273	229	201	177
1.65											384	272	228	200	175
1.7											383	272	227	199	174
1.75											375	266	226	198	172
1.8											359	265	223	195	171
1.85											329	252	214	186	164
1.9											289	230	197	172	152

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	139.2	108.3	90.5	79.2	70.7	63.4	54.1	46.9	41.0	33.1	22.7	17.3
1.6	138.6	107.3	89.5	78.6	69.9	62.8	53.5	46.1	40.2	32.3	22.2	17.0
1.65	138.0	106.3	88.5	77.8	69.3	62.0	52.9	45.5	39.6	31.7	21.8	16.6
1.7	137.2	105.5	87.7	77.2	68.7	61.4	52.1	44.9	39.0	31.1	21.3	16.3
1.75	136.6	104.9	87.1	76.6	67.9	60.8	51.5	44.2	38.2	30.3	20.8	15.9
1.8	134.0	104.3	86.5	75.8	67.3	60.4	51.1	44.0	37.6	30.1	20.6	15.8
1.85	130.1	102.4	85.7	74.6	66.7	60.0	50.9	43.6	37.0	29.7	20.4	15.6
1.9	121.4	96.4	81.2	70.7	63.4	56.8	48.9	41.6	36.2	29.3	20.2	15.4

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL2250 FR

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	678	613	578	548	516	481	448	418	379	295	242	176	144	124	112
1.6	631	582	552	524	492	460	428	400	375	294	241	174	142	123	112
1.65	620	578	547	517	483	451	420	393	370	292	239	172	141	121	111
1.7	606	565	532	497	463	432	404	380	359	287	237	170	140	120	110
1.75	585	541	502	464	433	405	380	359	341	276	231	168	139	119	109
1.8	526	506	475	440	404	372	350	333	318	261	220	167	138	118	108
1.85	497	453	400	372	350	333	318	306	293	242	204	158	131	112	104
1.9	368	352	336	321	306	294	282	271	260	214	182	145	120	106	96

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	83.0	66.4	55.6	48.6	43.4	38.9	33.3	28.8	25.2	20.3	13.9	10.7
1.6	82.7	65.9	54.9	48.2	43.0	38.5	32.8	28.4	24.7	19.9	13.6	10.4
1.65	82.3	65.3	54.3	47.8	42.6	38.1	32.4	28.0	24.3	19.5	13.4	10.2
1.7	81.9	64.9	53.9	47.4	42.2	37.7	32.0	27.6	23.9	19.1	13.1	10.0
1.75	81.5	64.5	53.5	47.0	41.8	37.3	31.6	27.2	23.5	18.6	12.8	9.8
1.8	79.9	64.1	53.1	46.6	41.4	37.1	31.4	27.0	23.1	18.4	12.7	9.7
1.85	77.5	62.8	52.7	45.8	40.9	36.9	31.2	26.8	22.7	18.2	12.5	9.6
1.9	72.4	59.2	49.9	43.4	38.9	34.9	30.0	25.5	22.3	18.0	12.4	9.5

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL2300

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	572	571	570	569	519	490	456	421	399	289	237	181	143	117	101
1.6	540	539	538	537	494	464	434	403	383	285	235	179	142	116	100
1.65	514	513	512	511	480	451	420	391	370	279	231	178	141	116	99
1.7	492	491	490	489	461	430	399	369	351	270	226	176	140	114	99
1.75	468	467	466	465	432	397	366	339	327	256	219	173	138	113	98
1.8	425	424	423	422	381	349	324	306	296	240	209	167	134	110	96
1.85	340	339	338	337	312	291	275	263	259	220	196	157	126	104	91
1.9	223	222	221	220	217	214	212	210	211	197	180	142	113	94	82

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	72.7	57.2	47.8	41.1	36.2	32.4	26.8	22.8	19.8	17.6	14.5	9.65	7.24
1.6	72.3	57.0	47.6	41.0	36.1	32.3	26.7	22.7	19.7	17.5	14.4	9.61	7.21
1.65	72.0	56.7	47.4	40.8	36.0	32.2	26.6	22.6	19.7	17.5	14.4	9.59	7.20
1.7	71.6	56.4	47.2	40.7	35.8	32.0	26.4	22.5	19.6	17.4	14.3	9.53	7.15
1.75	70.8	55.9	46.7	40.3	35.5	31.7	26.2	22.2	19.4	17.2	14.2	9.45	7.08
1.8	69.3	54.9	46.0	39.6	34.9	31.2	25.7	21.8	19.0	16.9	13.9	9.27	6.95
1.85	66.0	52.5	44.1	38.1	33.6	30.1	24.8	21.1	18.4	16.3	13.4	8.90	6.68
1.9	59.8	47.9	40.5	35.2	31.1	27.9	22.9	19.5	17.0	15.2	12.4	8.25	6.19

	ISY Use Only
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PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table for SWL2500

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	633	629	625	589	524	478	459	442	431	327	268	211	171	147	126
1.6	630	623	598	543	489	466	449	436	421	323	266	210	169	146	125
1.65	624	608	558	506	471	456	441	429	410	320	266	207	167	143	123
1.7	608	564	512	476	457	443	430	415	390	314	263	199	162	138	122
1.75	555	502	472	453	438	424	408	384	370	300	259	197	161	137	122
1.8	451	440	431	424	415	390	368	354	344	277	251	192	157	134	117
1.85	425	416	408	378	362	347	335	324	317	251	243	183	148	127	112
1.9	322	317	315	311	308	306	304	300	292	232	221	166	137	117	102

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	91.8	70.7	58.8	51.6	45.7	40.7	34.2	29.5	26.1	19.5	13.6	10.4
1.6	89.9	70.2	58.4	51.1	45.4	40.5	33.9	29.2	25.8	18.7	12.8	9.7
1.65	87.6	69.5	58.2	50.8	45.1	40.4	33.8	29.1	25.6	18.7	12.8	9.7
1.7	87.4	69.3	58.0	50.7	44.9	40.4	33.6	29.1	25.6	18.7	12.8	9.7
1.75	86.8	68.6	57.7	50.4	44.6	39.9	33.4	28.9	25.4	18.6	12.6	9.6
1.8	86.1	67.8	57.3	50.1	44.2	39.6	33.2	28.7	25.3	18.4	12.4	9.4
1.85	82.3	64.6	53.8	45.3	41.5	37.6	31.9	27.8	24.5	17.9	12.1	9.2
1.9	75.6	60.7	51.7	44.3	40.3	36.1	30.5	26.2	22.9	16.8	11.3	8.7

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table For The SWL2500E

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	633	629	625	589	524	478	459	442	431	327	268	211	171	147	126
1.6	630	623	598	543	489	466	449	436	421	323	266	210	169	146	125
1.65	624	608	558	506	471	456	441	429	410	320	266	207	167	143	123
1.7	608	564	512	476	457	443	430	415	390	314	263	199	162	138	122
1.75	555	502	472	453	438	424	408	384	370	300	259	197	161	137	122
1.8	451	440	431	424	415	390	368	354	344	277	251	192	157	134	117
1.85	425	416	408	378	362	347	335	324	317	251	243	183	148	127	112
1.9	322	317	315	311	308	306	304	300	292	232	221	166	137	117	102

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	91.8	70.7	58.8	51.6	45.7	40.7	34.2	29.5	26.1	19.5	13.6	10.4
1.6	89.9	70.2	58.4	51.1	45.4	40.5	33.9	29.2	25.8	18.7	12.8	9.7
1.65	87.6	69.5	58.2	50.8	45.1	40.4	33.8	29.1	25.6	18.7	12.8	9.7
1.7	87.4	69.3	58.0	50.7	44.9	40.4	33.6	29.1	25.6	18.7	12.8	9.7
1.75	86.8	68.6	57.7	50.4	44.6	39.9	33.4	28.9	25.4	18.6	12.6	9.6
1.8	86.1	67.8	57.3	50.1	44.2	39.6	33.2	28.7	25.3	18.4	12.4	9.4
1.85	82.3	64.6	53.8	45.3	41.5	37.6	31.9	27.8	24.5	17.9	12.1	9.2
1.9	75.6	60.7	51.7	44.3	40.3	36.1	30.5	26.2	22.9	16.8	11.3	8.7

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Table For The SWL2500-6

CPD (W/Cell)

VPC	Time (Minutes)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	1214	1213	1212	1211	1119	1053	1009	966	904	710	587	451	368	308	268
1.6	1124	1123	1122	1121	1057	1012	977	920	867	701	583	448	365	306	267
1.65	1070	1069	1068	1067	1022	987	941	884	838	684	577	444	363	305	265
1.7	1016	1015	1014	1013	986	942	883	836	799	663	566	437	358	301	263
1.75	977	976	975	974	915	859	820	785	759	636	546	423	349	295	258
1.8	860	859	858	857	812	784	759	742	720	607	512	402	333	284	249
1.85	736	735	734	733	734	732	708	675	650	552	447	376	309	267	234
1.9	665	664	663	662	654	629	614	601	580	475	415	336	278	239	212

VPC	Time (Hours)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	195.1	152.5	126.1	108.3	94.6	84.9	71.1	60.7	52.7	38.4	25.8	19.5
1.6	194.2	151.5	125.2	107.8	94.1	84.5	70.8	60.4	52.4	38.2	25.7	19.4
1.65	193.4	150.8	124.8	107.5	93.8	84.2	70.4	60.0	52.2	38.0	25.6	19.4
1.7	192.1	149.9	124.2	107.0	93.2	83.7	70.0	59.6	51.8	37.8	25.5	19.3
1.75	189.7	147.9	122.9	106.1	92.3	82.7	69.0	58.7	51.1	37.3	25.3	19.1
1.8	184.5	144.4	120.2	104.0	90.4	81.0	67.4	57.3	50.0	36.7	24.9	18.8
1.85	174.2	137.1	114.8	99.4	86.4	77.5	64.3	54.9	48.0	35.2	23.9	18.1
1.9	157.2	125.3	105.6	91.5	79.5	71.7	59.2	50.5	44.4	32.3	22.1	17.2

	ISY Use Only
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PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Discharge Table For The SWL3300

CPD (W/Cell)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5															
1.6				744	676	627	590	561	534	420	348	265	214	180	156
1.65				692	637	602	572	542	517	410	343	263	212	179	155
1.7				646	603	573	544	519	494	399	336	259	210	177	154
1.75				589	561	534	505	482	463	383	323	254	206	174	152
1.8				537	507	480	457	442	430	357	304	243	200	170	148
1.85				456	432	421	411	404	388	325	282	227	188	160	140
1.9				391	389	383	365	355	339	289	258	206	170	146	127
1.95															

VPC	Discharge Time (Hrs)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5												
1.6	113.5	88.7	73.8	63.9	56.7							
1.65	112.8	88.3	73.5	63.7	56.4	50.3	41.7	35.5	30.6	21.7	15.0	11.7
1.7	112.0	87.7	73.1	63.4	56.1	50.0	41.5	35.3	30.4	21.6	14.9	11.6
1.75	110.5	86.7	72.4	62.8	55.6	49.7	41.3	35.0	30.1	21.5	14.8	11.5
1.8	107.7	84.8	71.0	61.8	54.7	48.8	40.6	34.4	29.6	21.1	14.6	11.4
1.85	102.1	80.9	68.1	59.7	52.6	47.0	39.0	33.1	28.7	20.7	14.3	11.1
1.9	93.1	74.4	63.1	55.1	48.6	43.7	36.3	30.7	26.7	19.4	13.4	10.4
1.95												

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Table For The SWL3800

CPD (W/Cell)

VPC	Time (Minutes)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	886	885	884	883	834	791	737	696	655	502	406	302	242	201	174
1.6	842	841	840	839	796	756	705	666	633	495	403	300	240	198	171
1.65	801	800	799	798	751	712	675	643	615	486	398	298	237	197	170
1.7	751	750	749	748	708	668	642	618	591	470	390	294	235	195	168
1.75	695	694	693	692	657	628	608	588	563	447	377	285	229	192	166
1.8	636	635	634	633	606	587	562	541	517	416	355	274	221	186	162
1.85	587	586	585	584	559	527	504	486	461	382	329	253	205	175	154
1.9	472	471	470	469	442	426	412	404	394	334	289	222	184	159	141

VPC	Time (Hours)											
	1.5	2	2.5	3	3.5	4	5	6	7	10	15	20
1.5	127.8	101.0	83.3	71.5	62.7	56.0	46.2	39.2	34.0	24.6	17.2	13.3
1.6	126.8	100.5	82.9	71.2	62.4	55.7	45.9	38.8	33.6	24.2	16.9	13.1
1.65	126.0	100.1	82.6	71.0	62.2	55.5	45.5	38.5	33.4	24.0	16.8	13.0
1.7	125.0	99.5	82.2	70.7	61.9	55.2	45.3	38.3	33.2	23.8	16.7	12.9
1.75	123.7	98.6	81.5	70.1	61.4	54.7	44.9	37.9	32.8	23.6	16.4	12.8
1.8	121.0	96.6	80.0	69.0	60.3	53.7	44.1	37.1	32.1	23.2	16.2	12.6
1.85	115.9	92.1	76.6	65.9	57.7	51.6	42.2	35.5	30.7	22.1	15.6	12.3
1.9	105.2	83.5	69.8	60.0	52.9	47.3	38.9	33.0	28.6	20.7	14.5	11.2

	ISY Use Only
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PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Nominal Constant Power Table For The SWL4250

CPD (W/Cell)

VPC	Time (Minutes)															
	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	983	982	981	980	979	901	840	789	744	703	568	471	355	284	239	207
1.6	896	895	894	893	892	839	789	746	707	674	558	465	353	283	238	206
1.65	857	856	855	854	853	802	756	716	680	653	546	460	351	281	237	205
1.7	814	813	812	811	810	758	712	673	648	627	525	448	346	279	235	204
1.75	761	760	759	758	757	694	652	633	614	593	499	430	336	273	231	202
1.8	655	654	653	652	651	637	617	593	572	549	464	405	320	262	224	196
1.85	637	636	635	634	633	593	558	533	514	496	421	373	296	244	210	184
1.9	531	530	529	528	527	507	485	464	444	431	375	329	262	218	187	165

VPC	Time (Hours)											
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	10.0	15.0	20.0
1.5	146	116	97.4	84.3	74.4	66.8	55.6	47.3	41.0	29.6	20.6	15.9
1.6	145	116	97.1	84.1	74.1	66.6	55.4	47.1	40.8	29.5	20.5	15.7
1.65	145	116	97.0	84.0	74.0	66.4	55.2	46.8	40.6	29.3	20.4	15.7
1.7	144	115	96.7	83.7	73.8	66.1	54.9	46.6	40.4	29.1	20.3	15.7
1.75	144	115	96.1	83.2	73.2	65.6	54.4	46.1	40.0	28.8	20.2	15.6
1.8	141	113	94.8	82.0	72.1	64.5	53.4	45.2	39.3	28.5	19.9	15.5
1.85	135	108	91.2	78.9	69.4	62.1	51.4	43.8	38.2	27.8	19.5	15.1
1.9	124	100	84.2	72.8	64.2	57.6	47.7	40.9	35.8	26.2	18.3	14.2

ISY Use Only

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL750

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	135	118	104	93	84	78	73	68	53	44	32	25	21	18	18
1.6	130	114	101	91	83	77	72	68	53	44	32	25	21	18	18
1.65	146	125	110	98	89	82	76	72	67	53	43	31	25	20	18
1.7	135	117	104	94	86	80	75	71	67	52	43	31	24	20	18
1.75	120	106	96	88	82	77	73	69	65	52	43	31	24	20	17
1.8	104	94	87	81	77	73	69	66	63	50	41	30	24	20	17
1.85	91	84	79	74	71	67	64	61	58	47	38	28	22	19	17
1.9	70	73	69	66	63	60	57	55	52	41	34	25	20	17	15

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	13.5	10.9	9.14	7.84	6.83	5.82	4.42	3.55	3.10	2.95	2.56	1.71	1.40
1.6	13.3	10.8	8.94	7.70	6.63	5.68	4.30	3.47	3.04	2.87	2.50	1.66	1.35
1.65	13.1	10.7	8.79	7.60	6.43	5.56	4.20	3.39	2.98	2.81	2.44	1.61	1.31
1.7	13.0	10.6	8.69	7.52	6.33	5.46	4.10	3.31	2.92	2.75	2.39	1.57	1.28
1.75	12.9	10.5	8.59	7.45	6.25	5.40	4.00	3.24	2.86	2.70	2.34	1.53	1.25
1.8	12.8	10.4	8.50	7.37	6.21	5.35	3.92	3.17	2.80	2.65	2.29	1.49	1.22
1.85	12.5	10.2	8.43	7.14	6.00	5.12	3.88	3.10	2.75	2.6	2.24	1.44	1.19
1.9	11.6	9.50	7.80	6.52	5.32	4.66	3.73	3.00	2.66	2.56	2.17	1.40	1.16

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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*Constant Current Discharge Table For The SWL780V

CCD (A/Battery)

VPC	Discharge Time (Minutes)															
	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	132	131	130	119	108	97	88	80	75	69	53	44	33	27	23	20
1.6	128	127	126	115	104	94	85	79	74	68	52	44	33	27	23	20
1.65	120	119	118	108	98	90	82	76	71	67	51	44	32	26	22	19
1.7	115	114	113	103	94	85	79	73	68	65	50	43	32	26	22	19
1.75	107	106	105	95	88	81	75	69	64	60	48	42	32	26	22	19
1.8	94	93	92	84	78	72	67	62	58	55	46	40	31	25	21	18
1.85	74	73	72	68	62	59	55	52	50	48	43	38	29	24	20	18
1.9	46	45	44	43	42	41	41	41	41	40	38	34	26	22	18	16

VPC	Discharge Time (Hours)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	14.1	11.1	9.31	8.08	7.10	6.33	5.19	4.43	3.88	3.56	2.83	1.93	1.47
1.6	14.0	11.0	9.25	8.01	7.05	6.29	5.16	4.40	3.86	3.53	2.81	1.92	1.46
1.65	13.9	11.0	9.20	7.97	7.01	6.25	5.14	4.38	3.84	3.52	2.80	1.91	1.46
1.7	13.8	10.9	9.15	7.92	6.97	6.22	5.11	4.35	3.82	3.49	2.79	1.91	1.45
1.75	13.7	10.8	9.07	7.86	6.92	6.16	5.06	4.31	3.76	3.45	2.76	1.89	1.44
1.8	13.4	10.6	8.90	7.68	6.76	6.02	4.94	4.22	3.70	3.38	2.71	1.86	1.42
1.85	12.8	10.1	8.51	7.37	6.46	5.76	4.74	4.04	3.55	3.24	2.60	1.79	1.37
1.9	11.6	9.29	7.82	6.72	5.92	5.26	4.35	3.73	3.27	2.99	2.40	1.65	1.26

	ISY Use Only
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PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL1100

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	192	168	149	134	122	112	104	97	77	65	50	40	33	28	
1.6	180	159	142	129	119	110	102	96	76	65	50	40	33	27	
1.65	197	171	152	137	126	116	108	101	95	76	64	49	40	32	27
1.7	181	159	143	131	121	113	105	98.5	93	74	64	49	39	32	27
1.75	163	146	133	124	116	108	101	95.3	90	73	62	48	39	32	27
1.8	140	130	123	117	111	104	97.7	91.2	86	70	60	46	37	31	26
1.85	127	120	113	107	100	93.8	87.7	82.7	79	66	57	44	35	29	25
1.9	102	95.5	91.0	87.2	83.9	80.8	77.7	75.1	72	61	52	39	32	26	23

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	19.8	15.4	12.4	10.3	9.00	8.20	7.56	6.94	6.15	5.49	4.30	2.87	2.18
1.6	19.6	15.2	12.2	10.2	8.85	8.14	7.46	6.84	6.05	5.39	4.22	2.80	2.15
1.65	19.4	15.1	12.0	10.1	8.60	8.08	7.37	6.74	5.95	5.29	4.15	2.74	2.10
1.7	19.2	15.0	11.8	10.0	8.50	8.00	7.28	6.64	5.85	5.20	4.08	2.68	2.06
1.75	19.0	14.7	11.7	9.87	8.40	7.90	7.19	6.54	5.75	5.11	4.02	2.62	2.03
1.8	18.8	14.5	11.6	9.63	8.30	7.80	7.10	6.44	5.65	5.02	3.96	2.57	2.00
1.85	18.0	14.1	11.3	9.39	8.20	7.72	7.01	6.34	5.55	4.93	3.90	2.52	1.97
1.9	16.5	12.8	10.3	8.83	8.12	7.56	6.92	6.05	5.25	4.62	3.66	2.47	1.84

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL1800

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	419	339	293	251	223	206	187	173	160	120	97	72	58	49	42
1.6	385	320	276	243	217	198	181	167	156	117	95	70	56	48	42
1.65	354	299	264	230	205	185	172	159	147	113	93	70	56	47	41
1.7	293	266	237	212	194	175	163	153	141	109	90	68	55	47	41
1.75	265	242	218	200	179	167	155	145	135	106	88	67	55	47	41
1.8	229	223	208	189	169	158	149	140	130	102	84	64	52	44	39
1.85	218	195	181	166	153	143	133	126	117	92.6	78	60	49	42	37
1.9	167	175	166	154	140	130	124	117	108	88.2	74	58	47	41	36

VPC	Discharge Time (Hrs)													
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0	
1.5	30.8	24.2	20.2	17.4	15.3	13.6	11.1	9.44	8.12	7.15	5.75	3.86	2.92	
1.6	30.7	24.2	20.1	17.3	15.2	13.6	11.1	9.39	8.10	7.14	5.75	3.86	2.91	
1.65	29.9	23.8	19.8	17.0	15.0	13.4	11.0	9.38	8.08	7.09	5.74	3.85	2.91	
1.7	29.6	23.4	19.6	16.9	14.9	13.3	11.0	9.33	8.05	7.09	5.71	3.84	2.90	
1.75	29.5	23.3	19.5	16.8	14.7	13.2	10.8	9.21	7.93	6.96	5.62	3.80	2.88	
1.8	29.1	23.2	19.3	16.6	14.5	12.9	10.6	8.97	7.72	6.81	5.50	3.72	2.83	
1.85	27.8	22.2	18.4	15.8	13.8	12.3	10.1	8.57	7.37	6.51	5.26	3.57	2.71	
1.9	26.4	20.9	17.1	14.6	12.7	11.3	9.19	7.81	6.74	5.95	4.79	3.26	2.50	

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL1850

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5		327	277	238	210	187	169	156	146	116	97	73	59	51	46
1.6		301	261	231	207	187	168	154	145	115	96	73	59	50	45
1.65	325	281	250	225	204	186	167	153	144	114	96	73	58	50	45
1.7	291	259	236	217	200	184	166	152	142	113	96	73	58	50	45
1.75	248	232	219	208	197	183	165	149	139	112	95	72	58	50	45
1.8	228	217	208	198	186	170	153	140	133	109	93	71	58	49	44
1.85	212	200	184	165	147	137	131	126	122	100	86	68	56	49	43
1.9	196	151	146	142	138	134	130	124	118	98.8	81	62	52	46	41

VPC	Discharge Time (Hrs)													
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0	
1.5	34.7	28.7	24.1	20.6	17.7	15.4	12.9	11.3	9.90	8.90	7.10	5.10	4.10	
1.6	34.5	28.6	23.9	20.3	17.5	15.2	12.7	11.1	9.70	8.70	7.00	5.00	4.00	
1.65	34.3	28.5	23.7	20.1	17.3	15.0	12.6	10.9	9.50	8.50	6.90	4.90	3.90	
1.7	34.2	28.3	23.5	20.0	17.1	14.8	12.4	10.7	9.30	8.30	6.80	4.80	3.80	
1.75	34.1	28.1	23.3	19.9	16.9	14.6	12.3	10.6	9.20	8.20	6.70	4.70	3.70	
1.8	34.0	27.7	23.1	19.8	16.7	14.5	12.2	10.5	9.10	8.10	6.60	4.60	3.60	
1.85	33.3	27.3	22.5	19.2	16.1	14.3	12.1	10.4	9.00	8.00	6.50	4.50	3.50	
1.9	31.6	25.5	20.6	17.5	15.1	13.5	11.7	10.0	8.70	7.70	6.40	4.30		

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL1850-6

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5											195	147	119	102	91
1.6											193	146	117	101	91
1.65											192	146	117	100	90
1.7											191	145	116	100	90
1.75											190	144	116	99	89
1.8											185	142	115	99	88
1.85											171	135	112	97	87
1.9											163	124	104	92	82

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	69.4	57.4	48.2	41.2	35.4	30.8	25.8	22.6	19.8	17.8	14.2	10.2	8.2
1.6	69	57.2	47.8	40.6	35	30.3	25.4	22.2	19.4	17.4	14	10	8
1.65	68.6	57	47.4	40.2	34.6	29.9	25.1	21.8	19	17	13.8	9.8	7.8
1.7	68.4	56.6	47	40	34.2	29.5	24.8	21.4	18.6	16.6	13.6	9.6	7.6
1.75	68.2	56.2	46.6	39.8	33.8	29.2	24.6	21.2	18.4	16.4	13.4	9.4	7.4
1.8	68	55.4	46.2	39.6	33.4	28.9	24.4	21	18.2	16.2	13.2	9.2	7.2
1.85	66.6	54.6	45	38.4	32.2	28.6	24.2	20.8	18	16	13	9	7
1.9	63.2	51	41.2	35	30.2	27	23.4	20	17.4	15.4	12.8	8.6	

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL2250 FR

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5		450	390	343	306	277	255	236	219	163	132	101	82	69	60
1.6	449	392	350	320	293	271	251	234	217	161	131	100	82	69	60
1.65	404	360	328	303	281	262	245	228	213	159	130	99.5	81	68	59
1.7	356	326	303	284	267	251	235	220	205	155	128	98.9	80	68	59
1.75	319	298	282	259	240	223	209	197	186	147	124	97.3	79	67	58
1.8	294	269	245	227	212	199	188	178	170	139	118	92.6	76	65	56
1.85	190	183	178	174	170	167	164	161	157	137	112	85.4	70	60	53
1.9	181	174	169	165	161	156	152	147	142	115	96.7	76.2	63	54	48

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	44.6	36.9	31.3	27.2	23.8	21.1	16.6	13.9	11.9	10.5	8.90	6.70	5.00
1.6	44.2	36.4	30.8	26.7	23.2	20.8	16.1	13.4	11.6	10.2	8.60	6.40	4.80
1.65	43.8	35.9	30.3	26.2	22.6	20.1	15.6	13.0	11.3	9.90	8.30	6.10	4.60
1.7	43.5	35.4	29.8	25.7	22.1	19.6	15.1	12.6	11.0	9.60	8.00	5.90	4.40
1.75	43.2	34.9	29.4	25.2	21.6	19.1	14.7	12.2	10.8	9.40	7.80	5.70	4.30
1.8	42.1	34.1	28.5	24.4	21.1	18.6	14.4	11.9	10.5	9.20	7.60	5.50	4.20
1.85	40.0	33.0	27.4	23.6	20.5	17.7	13.9	11.4	10.0	8.90	7.40	5.40	4.10
1.9	36.6	29.7	25.2	21.6	18.8	16.4	13.3	11.1	9.40	8.30	7.20	5.30	4.00

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL2300

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	395	370	344	326	310	293	276	259	242						
1.6	378	353	333	310	299	282	264	247	235	200	140	90	73	59	48
1.65	359	336	321	306	290	272	255	239	232	197	138	88	73	58	48
1.7	356	338	323	300	274	259	242	230	227	193	133	84	67	54	47
1.75	332	318	297	290	255	242	230	219	220	186	126	78	67	53	46
1.8	297	284	267	280	234	225	217	206	212	179	119	72	64	53	45
1.85	261	257	247	241	233	221	209	196	184	149	101	76	60	49	42
1.9	232	212	200	189	180	171	166	158	153	131	84	66	53	44	39

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5													
1.6	30.60	25.20	20.40	16.80	16.43	15.84	14.96	13.46	12.32	10.32	9.28	6.72	4.64
1.65	30.00	24.60	20.40	16.80	16.21	15.68	14.87	13.38	12.23	10.24	9.20	6.72	4.56
1.7	30.00	24.00	19.80	16.30	16.06	15.40	14.60	13.38	12.23	10.24	9.20	6.72	4.56
1.75	30.00	23.00	19.80	15.50	15.19	14.80	14.20	13.29	12.14	9.70	8.00	6.23	4.00
1.8	29.40	22.00	19.20	15.00	15.05	14.40	13.80	13.20	12.06	9.40	7.80	6.15	3.90
1.85	28.80	23.40	19.20	15.60	14.70	13.23	13.12	13.02	11.88	9.38	7.77	5.53	3.43
1.9	27.60	21.60	17.40	13.80	13.30	12.46	12.48	12.41	11.26	8.85	7.35	5.04	

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table for SWL2500

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	565	485	415	384	365	345	325	305	285						
1.6	545	465	404	356	330	310	294	279	262	201	159	117	96.2	81.7	71.6
1.65	445	402	366	335	314	298	282	264	250	193	155	115	95.1	81.3	71.0
1.7	372	350	328	311	297	282	267	254	241	185	152	114	93.5	80.0	69.8
1.75	332	325	310	298	284	269	256	244	232	180	149	113	93.1	78.7	68.7
1.8	311	298	283	270	256	245	236	224	216	172	146	111	89.5	76.6	66.8
1.85	264	256	248	237	227	216	204	194	185	153	130	101	83.6	71.9	62.5
1.9	249	230	208	193	183	174	166	159	154	133	112	89.9	76.2	65.0	56.8

VPC	Discharge Time (Hrs)													
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0	
1.5														
1.6	49.8	37.9	30.9	26.4	23.0	20.5	17.2	14.6	12.9	11.6	9.48	6.38	4.79	
1.65	49.3	37.8	31.0	26.3	22.9	20.5	17.1	14.6	12.7	11.5	9.39	6.35	4.77	
1.7	48.4	37.3	30.8	26.2	22.9	20.3	16.8	14.4	12.5	11.4	9.33	6.28	4.72	
1.75	48.2	37.2	30.7	26.1	22.6	20.2	16.7	14.3	12.4	11.3	9.25	6.24	4.68	
1.8	47.6	36.9	30.2	25.8	22.4	19.9	16.5	14.0	12.3	11.1	9.14	6.18	4.62	
1.85	45.2	35.7	29.7	25.4	22.1	19.6	16.3	13.9	12.2	11.0	8.93	5.97	4.53	
1.9	41.6	33.4	28.0	23.8	20.7	18.5	15.2	13.0	11.3	10.0	8.28	5.55	4.28	

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table For The SWL2500E

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	565	485	415	384	365	345	325	305	285						
1.6	545	465	404	356	330	310	294	279	262	201	159	117	96.2	81.7	71.6
1.65	445	402	366	335	314	298	282	264	250	193	155	115	95.1	81.3	71.0
1.7	372	350	328	311	297	282	267	254	241	185	152	114	93.5	80.0	69.8
1.75	332	325	310	298	284	269	256	244	232	180	149	113	93.1	78.7	68.7
1.8	311	298	283	270	256	245	236	224	216	172	146	111	89.5	76.6	66.8
1.85	264	256	248	237	227	216	204	194	185	153	130	101	83.6	71.9	62.5
1.9	249	230	208	193	183	174	166	159	154	133	112	89.9	76.2	65.0	56.8

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5													
1.6	49.8	37.9	30.9	26.4	23.0	20.5	17.2	14.6	12.9	11.6	9.48	6.38	4.79
1.65	49.3	37.8	31.0	26.3	22.9	20.5	17.1	14.6	12.7	11.5	9.39	6.35	4.77
1.7	48.4	37.3	30.8	26.2	22.9	20.3	16.8	14.4	12.5	11.4	9.33	6.28	4.72
1.75	48.2	37.2	30.7	26.1	22.6	20.2	16.7	14.3	12.4	11.3	9.25	6.24	4.68
1.8	47.6	36.9	30.2	25.8	22.4	19.9	16.5	14.0	12.3	11.1	9.14	6.18	4.62
1.85	45.2	35.7	29.7	25.4	22.1	19.6	16.3	13.9	12.2	11.0	8.93	5.97	4.53
1.9	41.6	33.4	28.0	23.8	20.7	18.5	15.2	13.0	11.3	10.0	8.28	5.55	4.28

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table For The SWL2500-6

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	708	707	706	705	684	638	598	556	523	392	321	235	187.0	156.0	134.0
1.6	679	678	677	676	652	611	568	534	506	386	316	232	185	154	132
1.65	650	649	648	647	613	578	545	518	490	378	310	228	183	153	131
1.7	612	611	610	609	566	535	513	488	464	366	301	224	180	151	130
1.75	543	542	541	540	516	500	482	456	429	346	290	216	175	147	128
1.8	496	495	494	493	473	451	424	403	386	321	271	204	167	142	123
1.85	418	417	416	415	397	382	370	352	339	288	244	189	155	132	115
1.9	301	300	299	298	296	297	295	295	290	246	210	165	138	118	105

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8	10.0	15.0	20.0
1.5	97.3	76.9	63.8	55.0	48.4	43.2	35.4	30.1	26.1	23	18.7	12.8	9.66
1.6	96.4	76.2	63.2	54.5	47.9	42.7	35.0	29.7	25.8	22.9	18.6	12.7	9.60
1.65	95.8	75.7	62.7	54.1	47.5	42.3	34.8	29.5	25.6	22.7	18.5	12.6	9.55
1.7	94.8	74.9	62.1	53.5	47.0	41.8	34.4	29.3	25.4	22.6	18.4	12.5	9.50
1.75	93.3	73.6	60.8	52.3	45.9	40.9	33.9	28.8	25.1	22.2	18.2	12.2	9.20
1.8	90.0	70.9	58.7	50.4	44.2	39.5	32.8	28.1	24.6	21.8	18.0	12.1	9.13
1.85	84.5	66.7	55.3	47.5	41.8	37.5	31.2	26.6	23.1	20.6	16.8	11.5	8.82
1.9	77.00	60.60	50.40	43.40	38.30	34.40	28.50	24.30	21.20	18.9	15.50	10.60	8.19

	ISY Use Only
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PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table For The SWL3300

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5															
1.6				436	395	362	339	320	305	240	196	142	112	93	81
1.65				399	364	340	321	307	296	233	192	140	110	93	80
1.7				355	332	315	303	294	286	223	186	138	109	91	79
1.75				314	302	295	288	282	265	212	176	133	106	90	77
1.8				294	287	287	267	251	238	197	163	125	101	86	74
1.85				281	258	241	229	219	212	175	148	114	94	79	69
1.9				200	200	199	200	195	184	152	131	100	83	71	63
1.95															

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5													
1.6													
1.65	57.22	45.14	37.96	32.63									
1.7	56.60	44.70	37.52	32.11	27.74	24.47	19.90	16.84	14.61	12.82	10.60	7.28	5.55
1.75	55.61	43.90	36.81	31.37	27.14	23.98	19.55	16.59	14.41	12.58	10.51	7.20	5.51
1.8	53.90	42.48	35.70	30.22	26.22	23.21	19.00	16.15	14.13	12.33	10.25	7.05	5.42
1.85	50.74	40.28	33.72	28.52	24.79	22.00	18.11	15.39	13.39	11.84	9.79	6.75	5.24
1.9	45.71	36.81	30.46	25.82	22.52	20.06	16.58	14.08	12.30	10.81	9.09	6.20	4.87
1.95													

PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table For The SWL3800

CCD (A/BatteryI)

VPC	Time (Minutes)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	544	539	532	503	465	438	407	382	362	279	225	163	128	108	94
1.6	539	536	516	478	442	416	388	367	347	270	221	161	127	107	93
1.65	503	504	483	452	424	394	370	352	333	260	215	159	126	106	93
1.7	462	461	446	419	387	366	350	331	314	249	209	156	124	105	91
1.75	418	411	393	368	350	337	329	311	296	236	200	151	121	103	89
1.8	376	372	347	336	328	314	300	284	271	221	187	142	115	97	84
1.85	313	312	308	304	291	272	263	251	239	199	166	128	106	91	80
1.9	256	256	254	255	242	230	222	215	209	168	146	112	95	81	71

VPC	Time (Hours)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8	10.0	15.0	20.0
1.5	66.7	51.2	41.9	35.7	31.1	27.5	22.6	19.4	17.2	15.4	13.09	9.12	7.04
1.6	66.0	50.6	41.4	35.3	30.7	27.2	22.4	19.2	17.1	15.3	13.01	9.07	6.99
1.65	65.6	50.3	41.1	35.0	30.5	27.0	22.3	19.1	17.0	15.3	12.97	9.04	6.96
1.7	64.9	49.7	40.7	34.6	30.2	26.8	22.1	19.0	16.9	15.2	12.90	8.97	6.92
1.75	63.8	49.0	40.0	34.1	29.8	26.5	21.9	18.9	16.8	15.1	12.66	8.77	6.75
1.8	60.6	47.5	39.0	33.2	29.1	25.9	21.7	18.7	16.7	15	12.40	8.71	6.69
1.85	57.6	44.7	37.0	31.7	27.8	24.9	20.8	17.9	15.9	14.3	11.93	8.40	6.45
1.9	51.1	40.4	33.8	29.0	25.6	23.1	19.3	16.6	14.7	13.3	10.95	7.66	5.93

	ISY Use Only
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PRODUCT SPECIFICATION

BATTERY TYPE -	SWL RANGE
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SPECIFICATION -	BATTERY PERFORMANCE @ 20°C
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Specification Number	KH11-05-02
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Issue Level	14
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Issue Date	12/09/2016
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Constant Current Discharge Table For The SWL4250

CCD (A/Battery)

VPC	Discharge Time (min)														
	2	3	4	5	6	7	8	9	10	15	20	30	40	50	60
1.5	749	692	640	622	560	516	481	456	429	329	256	179	143	122	106
1.6	687	631	584	567	522	485	456	433	411	323	253	178	140	120	105
1.65	631	582	540	521	482	449	423	403	384	305	244	173	138	118	102
1.7	571	529	493	474	440	412	389	373	355	285	232	167	133	114	98.8
1.75	507	471	441	427	399	374	355	342	326	266	221	159	127	109	95.0
1.8	437	408	384	380	356	336	321	309	296	245	208	151	121	104	90.0
1.85	361	341	323	314	308	297	289	282	275	231	198	149	119	101	88.0
1.9	266	266	253	247	244	237	232	228	224	202	176	135	110	94	81.0

VPC	Discharge Time (Hrs)												
	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.0	15.0	20.0
1.5	76.4	59.4	48.9	41.7	36.2	32.2	26.7	22.8	19.4	17.73	14.37	9.98	7.65
1.6	76.0	59.2	48.8	41.6	36.1	32.1	26.7	22.7	19.3	17.64	14.35	9.94	7.60
1.65	74.6	58.5	48.3	41.3	36.0	31.9	26.6	22.6	19.2	17.56	14.31	9.92	7.59
1.7	73.0	57.6	47.7	40.9	35.7	31.7	26.4	22.5	19.1	17.48	14.20	9.87	7.56
1.75	71.1	56.4	47.0	40.4	35.3	31.5	26.2	22.3	19.0	17.39	14.16	9.81	7.50
1.8	68.7	55.0	46.0	39.6	34.7	31.0	25.8	22.0	18.7	17.14	14.00	9.68	7.41
1.85	64.4	51.4	42.8	37.1	32.6	29.2	24.4	21.0	18.5	16.92	13.76	9.48	7.18
1.9	59.2	46.9	38.9	33.5	29.5	26.5	22.2	19.1	16.8	15.35	12.54	8.60	6.55

ISY Use Only