SunStonePower

SUNSTONE POWER INDUSTRY CO., LTD.

Lead-acid Battery & Lithium-iron Battery

Manufacturer Since 2003

Company Profile

Sunstone Power Industry Co., Ltd was established in 2003. So far we have more than 17 years of history of production, marketing batteries for UPS, Solar system and Telecom application worldwide. We started as a Lead Acid Battery manufacturer and from 2018 we entered into LiFePO4 battery production and also developed the BMS system by ourselves. Since we own all software and hardware of BMS design, we can set up communication between our LiFePO4 battery bank with any other types of equipment such as rectifier, inverter, etc.

Besides this, we set up our Germany company in Frankfurt since 2017 and Indonesia company in Jakarta since the end of 2018. We have our own warehouse in both these two countries. This can give local support and fast delivery to European and South-East Asian Markets.

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Products Line

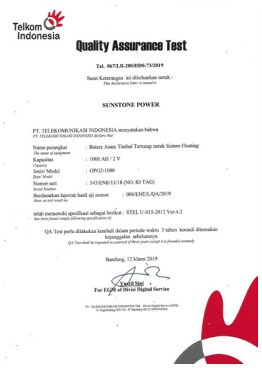
1. Full range of VRLA batteries

SPT series: 6V/12V top terminal AGM battery (below 20AH) with 5 years design life;
ML series: 6V/12V top terminal AGM battery (24AH up) with 10 years design life;
MLG series: 6V/12V top terminal Gel battery with 12 years design life;
VG series: 12V front terminal AGM battery with 10 years design life;
VGG series: 12V front terminal Gel battery with 12 years design life;
OPG series: 2V tubular plates Gel battery with 25 years design life;
OPS series: 2V tubular plates flooded battery with 25 years design life;
UC series: 2V AGM battery with 10 years design life;
UCG series: 2V Gel battery with 12 years design life.

2. Wide range of LiFePO4 battery bank with our owned technology of BMS

SLPO series: We developed a central control management system and we can supply almost all kinds of solutions for the LiFePO4 bank system including the regular voltage range of 12V, 24, 48V and also high voltage solution.

Certificates



01 SPT

Sunstone Spirit (SPT) series battery is the most common and the first generation delicate products which are designed with AGM (Absorbent Glass Mat) technology, high performance, and electrolyte. The definition of SPT series is coming from General purpose.

Model	Rated Voltage (V)	Rated Capacity (20hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
SPT6-1.2	6	1.2	98	3.8	24	0.9	52	2.0	0.28
SPT6-1.3	6	1.3	98	3.8	24	0.9	52	2.0	0.31
SPT6-2.8	6	2.8	66	2.6	33	1.3	96	3.7	0.50
SPT6-4	6	4.0	70	2.7	47	1.8	101	3.9	0.63
SPT6-4.5	6	4.5	70	2.7	47	1.8	101	3.9	0.71
SPT6-5	6	5.0	70	2.7	47	1.8	101	3.9	0.75
SPT6-6	6	5.5	70	2.7	47	1.8	101	3.9	0.80
SPT6-7	6	7.0	151	5.9	34	1.3	94	3.7	1.10
SPT6-9	6	9.0	151	5.9	34	1.3	94	3.7	1.20
SPT6-10	6	10.0	151	5.9	50	2.0	95	3.7	1.56
SPT6-12	6	12.0	151	5.9	50	2.0	95	3.7	1.75
SPT12-1.2	12	1.2	98	3.8	43.5	1.7	52	2.0	0.49
SPT12-1.3	12	1.3	98	3.8	43.5	1.7	52	2.0	0.55
SPT12-2.3	12	2.3	178	6.9	35	1.4	61	2.4	0.89
SPT12-4	12	4.0	90	3.5	70	2.7	101	3.9	1.36
SPT12-4.5	12	4.5	90	3.5	70	2.7	101	3.9	1.41
SPT12-5	12	5.0	90	3.5	70	2.7	101	3.9	1.49
SPT12-5.5	12	5.5	90	3.5	70	2.7	101	3.9	1.54
SPT12-6	12	6.0	151	5.9	65	2.5	94	3.7	1.90
SPT12-7E	12	6.6	151	5.9	65	2.5	94	3.7	1.98
SPT12-7	12	7.0	151	5.9	65	2.5	94	3.7	2.02
SPT12-7.2	12	7.2	151	5.9	65	2.5	94	3.7	2.08
SPT12-7.5	12	7.5	151	5.9	65	2.5	94	3.7	2.18
SPT12-8	12	8.0	151	5.9	65	2.5	94	3.7	2.25
SPT12-9E	12	8.6	151	5.9	65	2.5	94	3.7	2.40
SPT12-9	12	9.0	151	5.9	65	2.5	94	3.7	2.55
SPT12-12	12	12.0	151	5.9	98	3.8	95	3.7	3.35
SPT12-12H	12	13.0	151	5.9	98	3.8	95	3.7	3.50
SPT12-14	12	14.0	151	5.9	98	3.8	95	3.7	3.85
SPT12-18E	12	17.0	181	7.1	77	3.0	165	6.4	5.00
SPT12-18	12	18.0	181	7.1	77	3.0	165	6.4	5.40
SPT12-20	12	20.0	181	7.1	77	3.0	165	6.4	5.80

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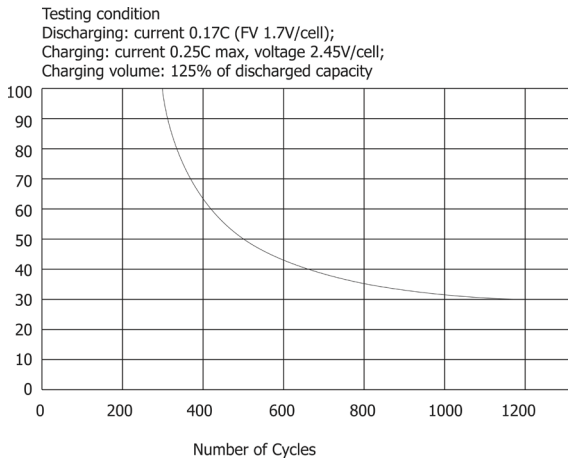
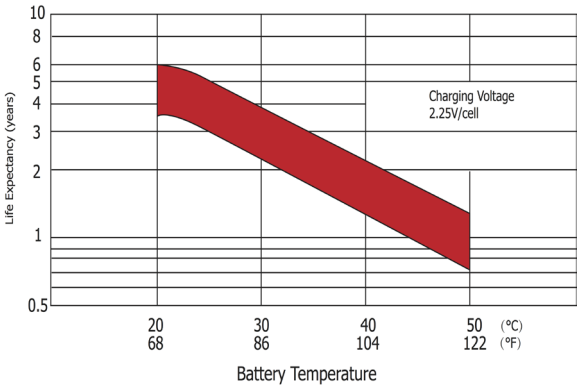
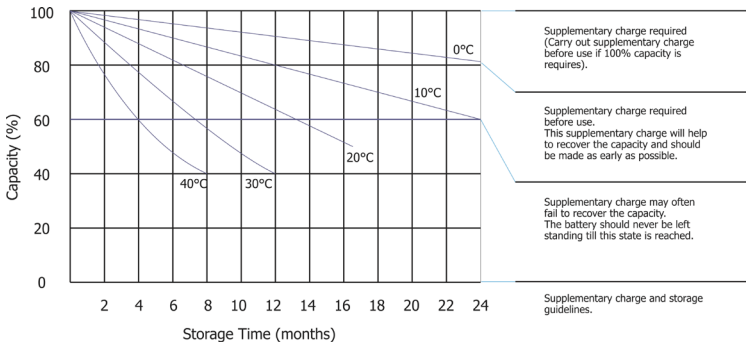
Cycle Life With Depth Of Discharge (D.O.D.)



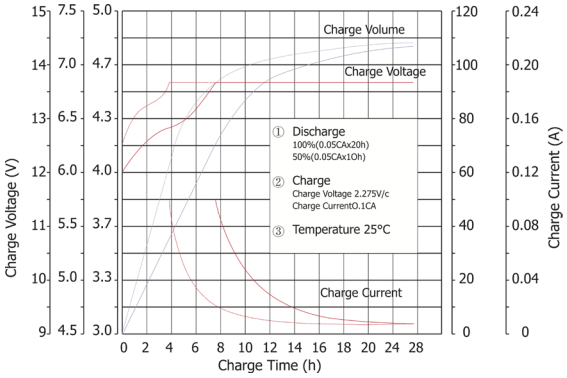
Float Life With Effect Of Temperature



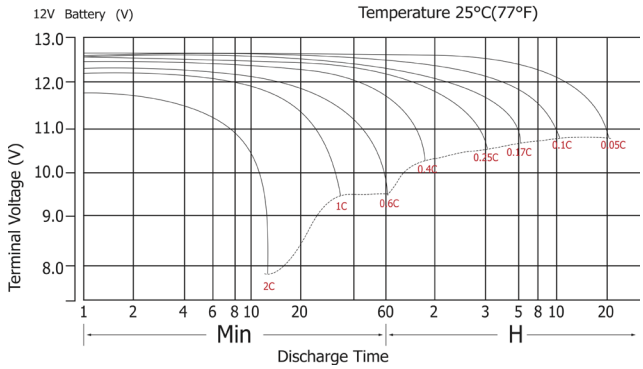
Storage Characteristics



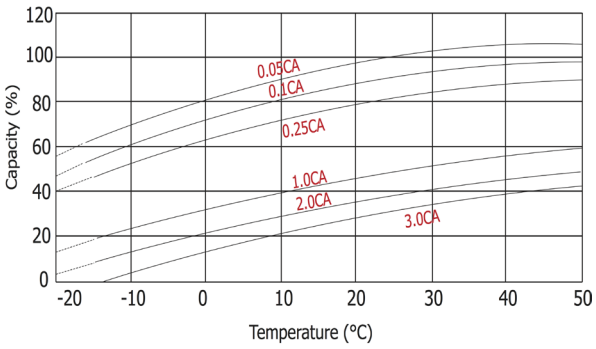
Charge Characteristics



Discharge Characteristics



Temperature Effects With Capacity



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02 ML

Sunstone Mainline (ML) series is 10 years designed life. For this long life purpose, the plates are made by developed alloy which is more effective for preventing corrosion. The main application of this series is UPS.

Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
ML12-24	12	24	176	6.9	166	6.5	125	4.9	7.50
ML12-26	12	26	176	6.9	166	6.5	125	4.9	7.90
ML12-28	12	28	176	6.9	166	6.5	125	4.9	8.60
ML12-33	12	33	195	7.6	130	5.1	154	6.0	10.50
ML12-35	12	35	195	7.6	130	5.1	154	6.0	11.20
ML12-38	12	38	198	7.7	167	6.5	170	6.6	12.50
ML12-40	12	40	198	7.7	167	6.5	170	6.6	12.90
ML12-44	12	44	198	7.7	167	6.5	170	6.6	13.60
ML12-55	12	55	229	8.9	138	5.4	209	8.2	17.00
ML12-60	12	60	350	13.7	167	6.5	178	6.9	20.00
ML12-65	12	65	350	13.7	167	6.5	178	6.9	21.00
ML12-70	12	70	260	10.1	169	6.6	210	8.2	22.80
ML12-75	12	75	260	10.1	169	6.6	210	8.2	23.00
ML12-80	12	80	260	10.1	169	6.6	210	8.2	23.50
ML12-90	12	90	307	12.0	169	6.6	210	8.2	26.50
ML12-100E	12	96	329	12.8	172	6.7	214	8.3	28.50
ML12-100	12	100	329	12.8	172	6.7	214	8.3	29.40
ML12-100H	12	105	329	12.8	172	6.7	214	8.3	30.00
ML12-110	12	110	329	12.8	172	6.7	214	8.3	31.00
ML12-120	12	120	406	15.8	172	6.7	208	8.1	36.80
ML12-135	12	135	341	13.3	173	6.7	281	11.0	40.50
ML12-140	12	140	483	18.8	170	6.6	240	9.4	42.00
ML12-150	12	150	483	18.8	170	6.6	240	9.4	44.00
ML12-160	12	160	483	18.8	170	6.6	240	9.4	45.10
ML12-180	12	180	532	20.7	207	8.1	215	8.4	52.50
ML12-190	12	190	522	20.4	240	9.4	218	8.5	59.00
ML12-200	12	200	522	20.4	240	9.4	218	8.5	60.00
ML12-200H	12	208	522	20.4	240	9.4	218	8.5	61.50
ML12-220	12	220	522	20.4	240	9.4	218	8.5	63.00
ML12-230	12	230	520	20.3	269	10.5	220	8.6	67.00
ML12-240	12	240	520	20.3	269	10.5	220	8.6	68.00
ML12-250	12	250	520	20.3	269	10.5	220	8.6	71.20
ML12-260	12	260	520	20.3	269	10.5	220	8.6	72.20
ML12-270	12	270	520	20.3	269	10.5	220	8.6	73.20
ML6-110	6	110	195	7.6	170	6.6	207	8.1	17.00
ML6-150	6	150	260	10.1	180	7.0	247	9.6	25.00
ML6-160	6	160	260	10.1	180	7.0	247	9.6	26.00
ML6-180	6	180	260	10.1	180	7.0	247	9.6	27.50
ML6-200	6	200	260	10.1	180	7.0	247	9.6	30.00
ML6-220	6	220	260	10.1	180	7.0	247	9.6	33.00
ML6-300	6	300	295	11.5	178	6.9	345	13.5	46.00

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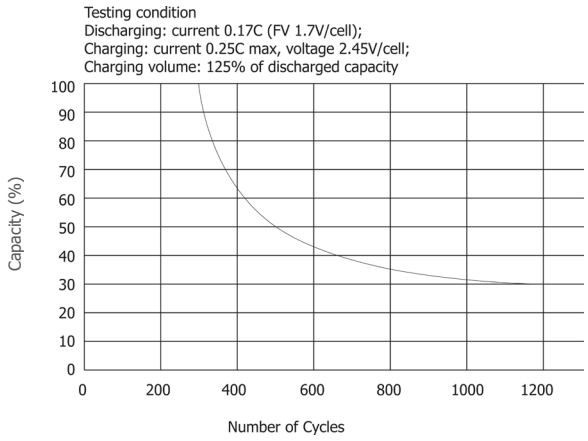
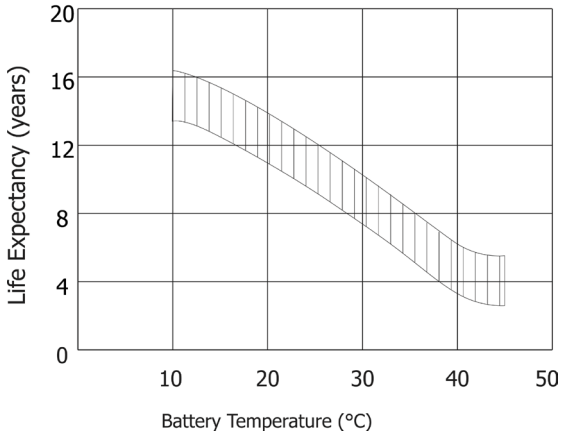
Cycle Life With Depth Of Discharge (D.O.D.)



Float Life With Effect Of Temperature



03 MLG

Sunstone Mainline Gel (MLG) series is produced with Gel technology. Gel technology can give longer life than ML series specially for cycling application mainly for solar/wind application.

Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
MLG12-24	12	24	176	6.9	166	6.5	125	4.9	7.50
MLG12-26	12	26	176	6.9	166	6.5	125	4.9	7.90
MLG12-28	12	28	176	6.9	166	6.5	125	4.9	8.60
MLG12-33	12	33	195	7.6	130	5.1	154	6.0	10.50
MLG12-35	12	35	195	7.6	130	5.1	154	6.0	11.20
MLG12-38	12	38	198	7.7	167	6.5	170	6.6	12.50
MLG12-40	12	40	198	7.7	167	6.5	170	6.6	12.90
MLG12-44	12	44	198	7.7	167	6.5	170	6.6	13.60
MLG12-55	12	55	229	8.9	138	5.4	209	8.2	17.00
MLG12-60	12	60	350	13.7	167	6.5	178	6.9	20.00
MLG12-65	12	65	350	13.7	167	6.5	178	6.9	21.00
MLG12-70	12	70	260	10.1	169	6.6	210	8.2	22.80
MLG12-75	12	75	260	10.1	169	6.6	210	8.2	23.00
MLG12-80	12	80	260	10.1	169	6.6	210	8.2	23.50
MLG12-90	12	90	307	12.0	169	6.6	210	8.2	26.50
MLG12-100E	12	96	329	12.8	172	6.7	214	8.3	28.50
MLG12-100	12	100	329	12.8	172	6.7	214	8.3	29.40
MLG12-100H	12	105	329	12.8	172	6.7	214	8.3	30.00
MLG12-110	12	110	329	12.8	172	6.7	214	8.3	31.00
MLG12-120	12	120	406	15.8	172	6.7	208	8.1	36.80
MLG12-135	12	135	341	13.3	173	6.7	281	11.0	40.50
MLG12-140	12	140	483	18.8	170	6.6	240	9.4	42.00
MLG12-150	12	150	483	18.8	170	6.6	240	9.4	44.00
MLG12-160	12	160	483	18.8	170	6.6	240	9.4	45.10
MLG12-180	12	180	532	20.7	207	8.1	215	8.4	52.50

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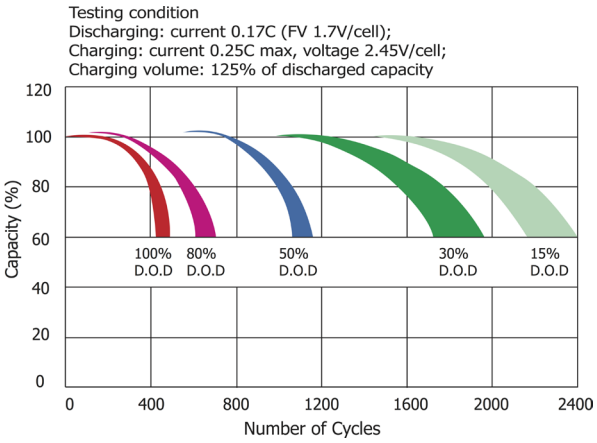
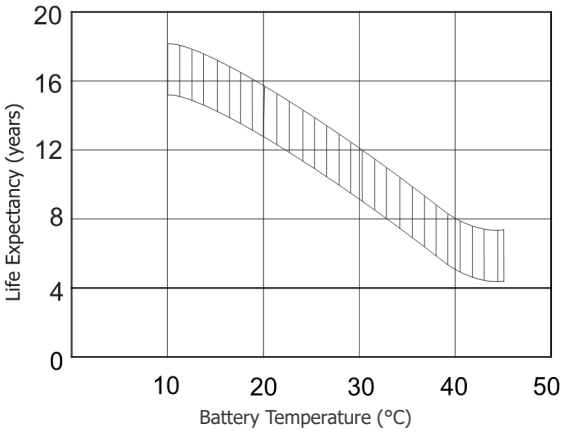
Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
MLG12-190	12	190	522	20.4	240	9.4	218	8.5	59.00
MLG12-200	12	200	522	20.4	240	9.4	218	8.5	60.00
MLG12-200H	12	208	522	20.4	240	9.4	218	8.5	61.50
MLG12-220	12	220	522	20.4	240	9.4	218	8.5	63.00
MLG12-230	12	230	520	20.3	269	10.5	220	8.6	67.00
MLG12-240	12	240	520	20.3	269	10.5	220	8.6	68.00
MLG12-250	12	250	520	20.3	269	10.5	220	8.6	71.20
MLG12-260	12	260	520	20.3	269	10.5	220	8.6	72.20
MLG12-270	12	270	520	20.3	269	10.5	220	8.6	73.20
MLG6-110	6	110	195	7.6	170	6.6	207	8.1	17.00
MLG6-150	6	150	260	10.1	180	7.0	247	9.6	25.00
MLG6-160	6	160	260	10.1	180	7.0	247	9.6	26.00
MLG6-180	6	180	260	10.1	180	7.0	247	9.6	27.50
MLG6-200	6	200	260	10.1	180	7.0	247	9.6	30.00
MLG6-220	6	220	260	10.1	180	7.0	247	9.6	33.00
MLG6-300	6	300	295	11.5	178	6.9	345	13.5	46.00

Cycle Life With Depth Of Discharge (D.O.D.)

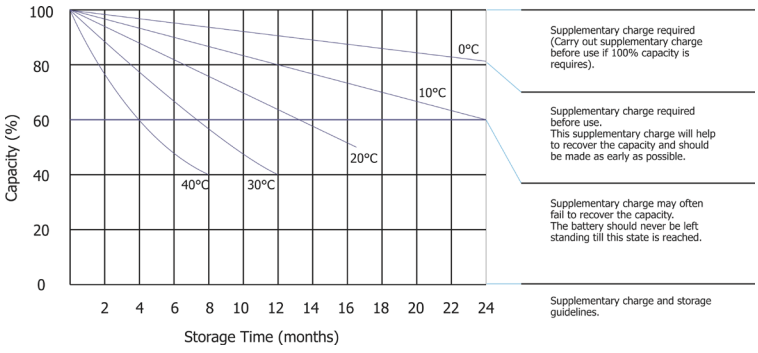


Float Life With Effect Of Temperature

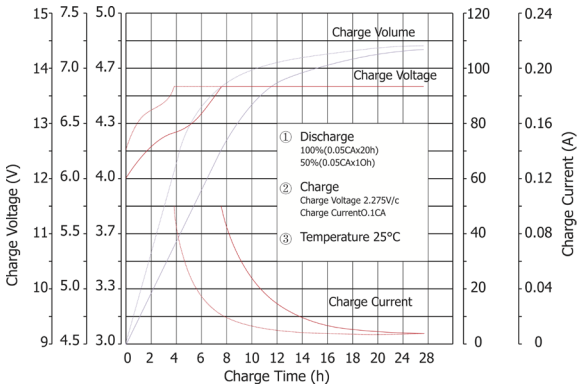


ML & MLG Curve

Storage Characteristics



Charge Characteristics



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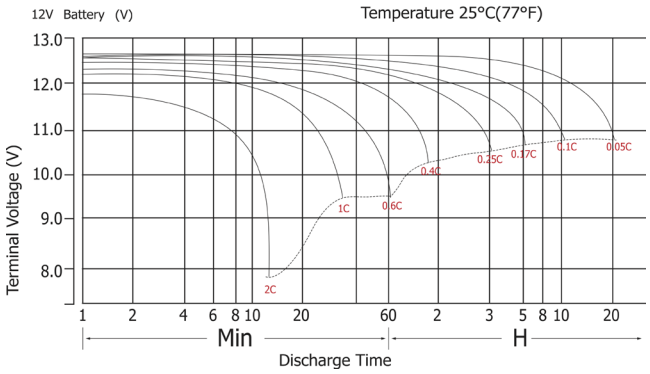
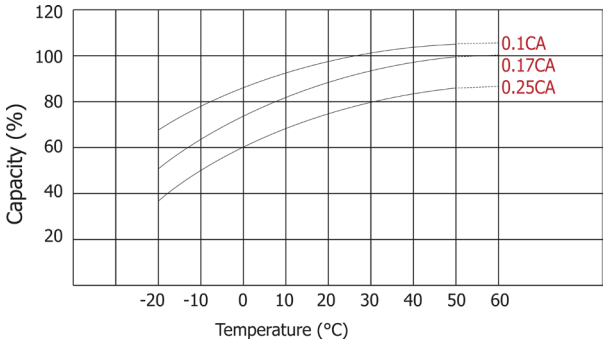
Discharge Characteristics



Temperature Effects With Capacity

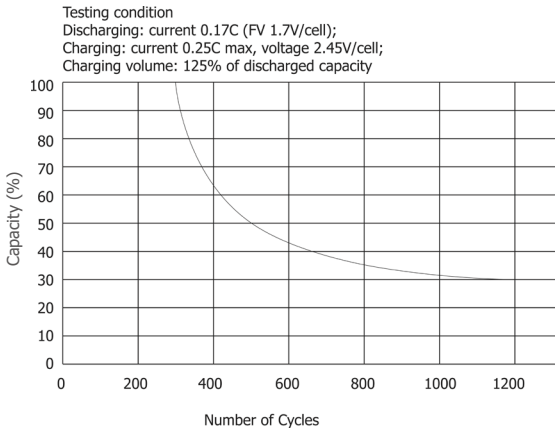


04 VG

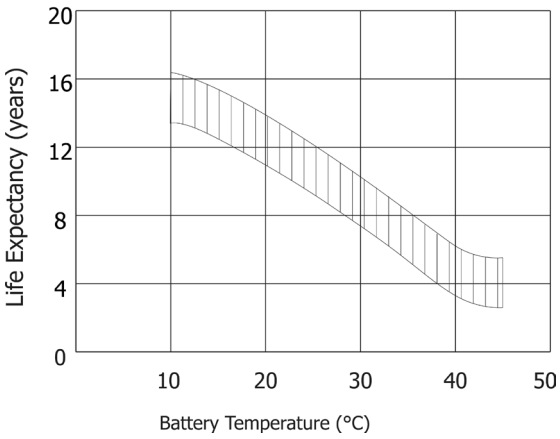
SunStone Vanguard (VG) series battery is specially designed for telecommunication applications. The outstanding advantage of VG series battery is that the width of the battery is narrow and the two terminal batteries are in the front. It is very convenient for connecting bus-bar and inspect after the batteries are installed in the rack. This battery is mainly used for the telecom site with rectifiers.

Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
VG12-55	12	55	277	10.8	106	4.1	223	8.7	17.00
VG12-90	12	90	507	19.8	110	4.3	223	8.7	29.00
VG12-100	12	100	507	19.8	110	4.3	223	8.7	30.50
VG12-100	12	100	394	15.4	110	4.3	286	11.2	32.50
VG12-120	12	120	394	15.4	110	4.3	286	11.2	34.00
VG12-150	12	150	551	21.5	110	4.3	288	11.2	46.50
VG12-165	12	165	551	21.5	110	4.3	288	11.2	49.50
VG12-170	12	170	561	21.9	125	4.9	316	12.3	55.00
VG12-180	12	180	561	21.9	125	4.9	316	12.3	57.00

Cycle Life With Depth Of Discharge (D.O.D.)



Float Life With Effect Of Temperature



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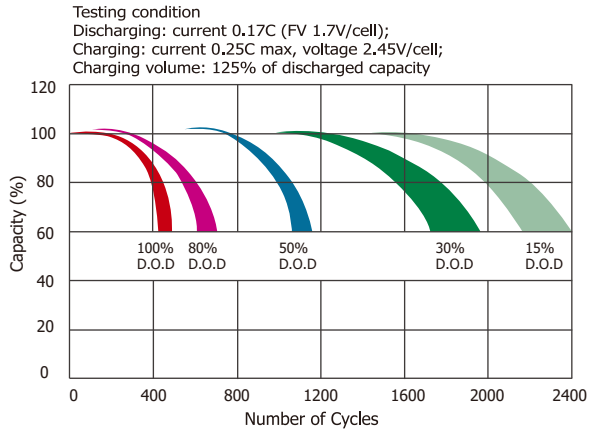
05 VGG

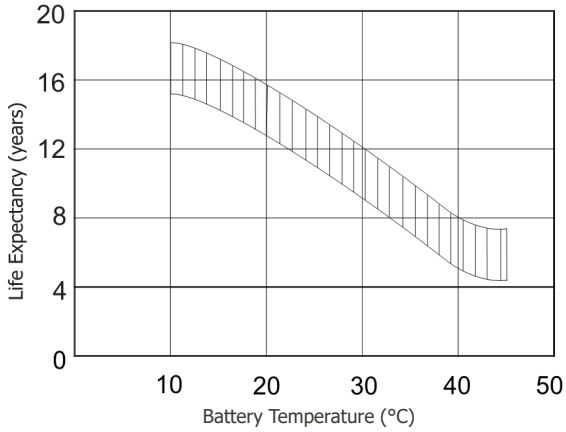
SunStone Vanguard Gel (VGG) series battery is the same as VG series which is specially designed for telecommunication applications. The outstanding advantage of VG series battery is that the width of the battery is narrow and the two terminal batteries are in the front. It is very convenient for connecting bus-bar and inspect after the batteries are installed in the rack. This battery is mainly used for the telecom site with rectifiers. VGG can give longer life of VG series.

Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
VGG12-55	12	55	277	10.8	106	4.1	223	8.7	17.00
VGG12-90	12	90	507	19.8	110	4.3	223	8.7	29.00
VGG12-100	12	100	507	19.8	110	4.3	223	8.7	30.50
VGG12-100	12	100	394	15.4	110	4.3	286	11.2	32.50
VGG12-120	12	120	394	15.4	110	4.3	286	11.2	34.00
VGG12-150	12	150	551	21.5	110	4.3	288	11.2	46.50
VGG12-165	12	165	551	21.5	110	4.3	288	11.2	49.50
VGG12-170	12	170	561	21.9	125	4.9	316	12.3	55.00
VGG12-180	12	180	561	21.9	125	4.9	316	12.3	57.00

Cycle Life With Depth Of Discharge (D.O.D.)

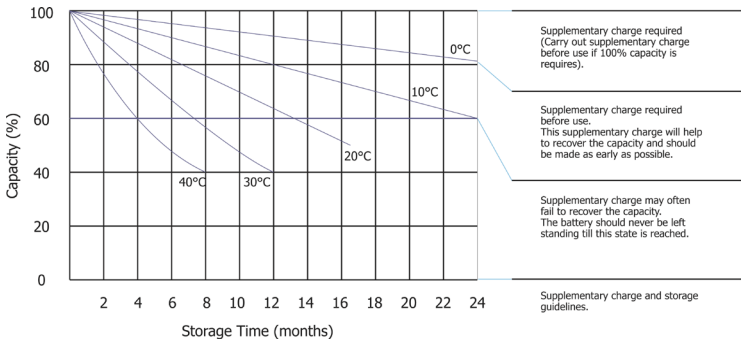


Float Life With Effect Of Temperature

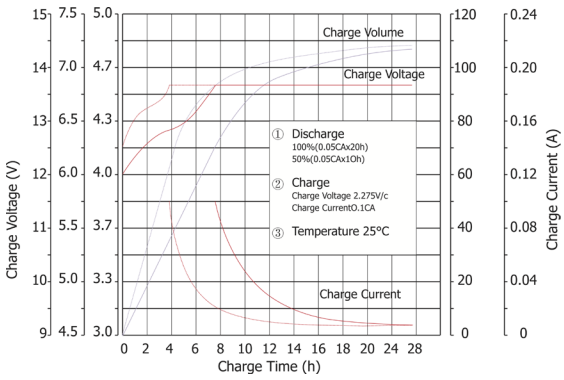


VG & VGG Curve

Storage Characteristics



Charge Characteristics



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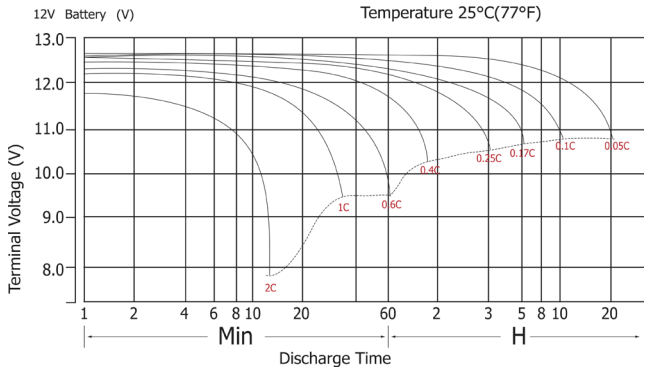
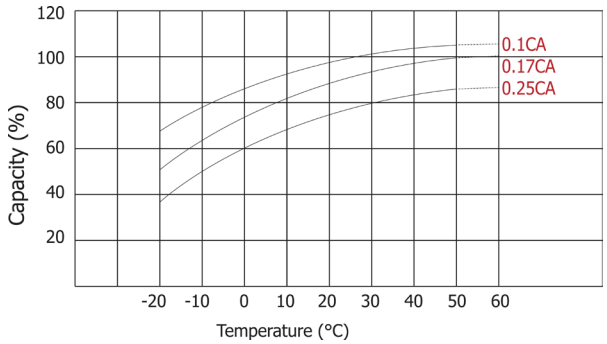
Discharge Characteristics



Temperature Effects With Capacity



06 OPG

Sunstone OPG series is OpzV standard battery. It is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patent formula of active material. OPG series exceeds DIN standard values with more than 25 years floating design life at 25°C and is even more suitable for cyclic use under extreme operating conditions.

Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
OPG2-100	2	100	103	4.0	206	8.0	390	15.2	13.0
OPG2-150	2	150	103	4.0	206	8.0	390	15.2	16.0
OPG2-200	2	200	103	4.0	206	8.0	390	15.2	19.0
OPG2-250	2	250	124	4.8	206	8.0	390	15.2	23.5
OPG2-300	2	300	145	5.7	206	8.0	390	15.2	28.0
OPG2-350	2	350	124	4.8	206	8.0	506	19.7	29.5
OPG2-420	2	420	145	5.7	206	8.0	506	19.7	35.0
OPG2-500	2	500	166	6.5	206	8.0	506	19.7	41.0
OPG2-600	2	600	145	5.7	206	8.0	681	26.6	49.0
OPG2-800	2	800	192	7.5	210	8.2	681	26.6	65.0
OPG2-1000	2	1000	233	9.1	210	8.2	681	26.6	78.0
OPG2-1200	2	1200	275	10.7	210	8.2	681	26.6	93.0
OPG2-1500	2	1500	275	10.7	210	8.2	831	32.4	117.0
OPG2-2000	2	2000	399	15.6	214	8.3	807	31.5	155.0
OPG2-2500	2	2500	487	19.0	212	8.3	807	31.5	192.0
OPG2-3000	2	3000	576	22.5	212	8.3	807	31.5	228.0

07 OPS

Sunstone OPS series is OpzS standard battery. It is the same as OPG series with tubular plates to offer high reliability and performance. The only difference is OPS is a flooded battery that requires maintenance. Because of this OPS series can give more than 25 years of floating design life at 25°C and it is the best performing lead battery especially with cycling applications with high-temperature environments.

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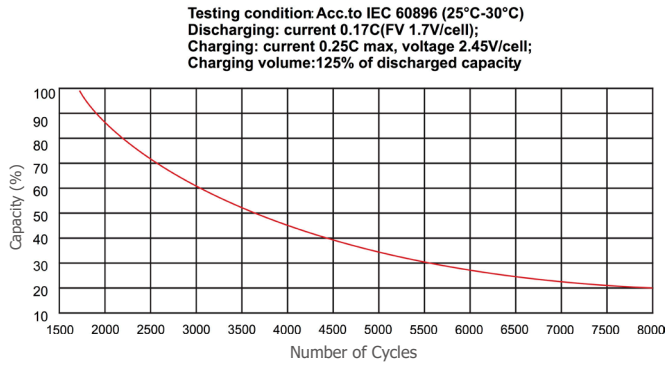
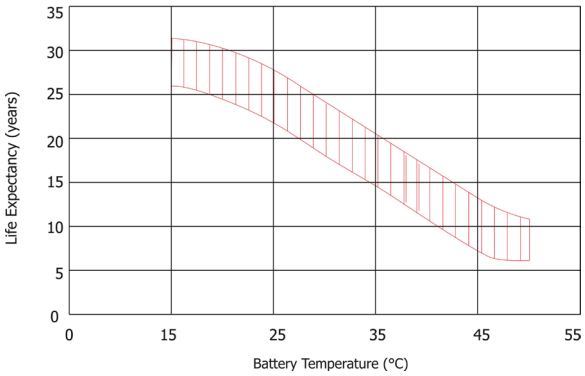
Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
OPS2-200	2	200	103	4.0	206	8.0	410	16.0	12.8
OPS2-250	2	250	124	4.8	206	8.0	410	16.0	15.1
OPS2-300	2	300	145	5.7	206	8.0	410	16.0	17.5
OPS2-350	2	350	124	4.8	206	8.0	526	20.5	19.8
OPS2-420	2	420	145	5.7	206	8.0	526	20.5	23.0
OPS2-500	2	500	166	6.5	206	8.0	526	20.5	26.2
OPS2-600	2	600	145	5.7	206	8.0	701	27.3	35.3
OPS2-800	2	800	191	7.4	210	8.2	701	27.3	48.2
OPS2-1000	2	1000	233	9.1	210	8.2	701	27.3	58.0
OPS2-1200	2	1200	275	10.7	210	8.2	701	27.3	67.8
OPS2-1500	2	1500	166	6.5	210	8.2	851	33.2	81.7
OPS2-2000	2	2000	399	15.6	214	8.3	827	32.3	119.5
OPS2-2500	2	2500	488	19.0	215	8.4	827	32.3	152.0
OPS2-3000	2	3000	577	22.5	215	8.4	827	32.3	170.0

OPG & OPS Curve

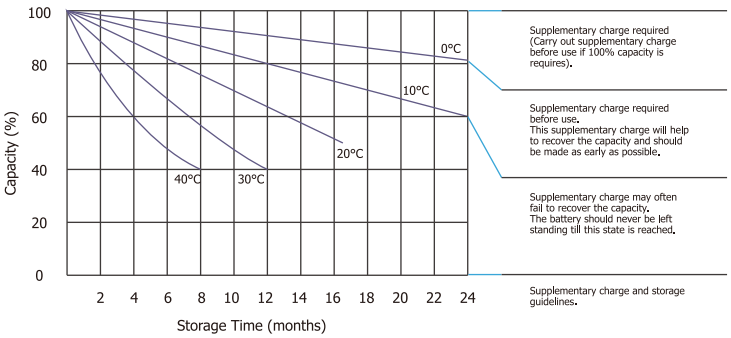
Cycle Life With Depth Of Discharge (D.O.D.)



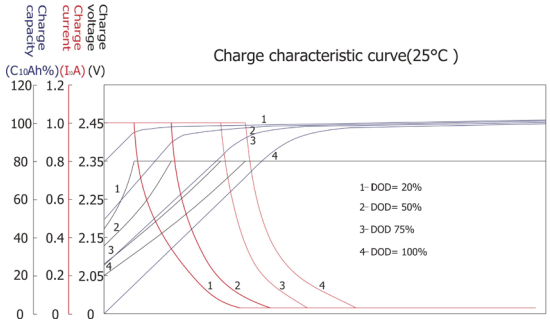
Float Life With Effect Of Temperature



Storage Characteristics



Charge Characteristics



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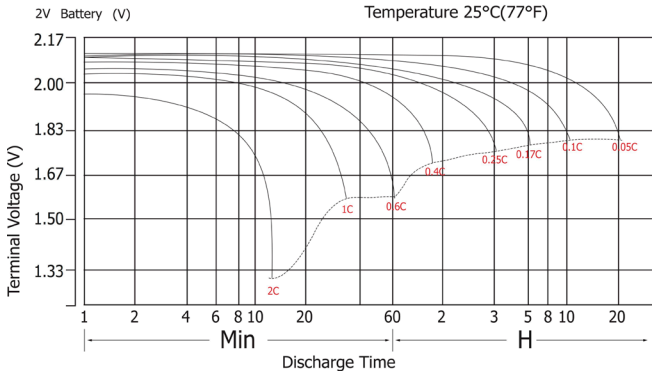
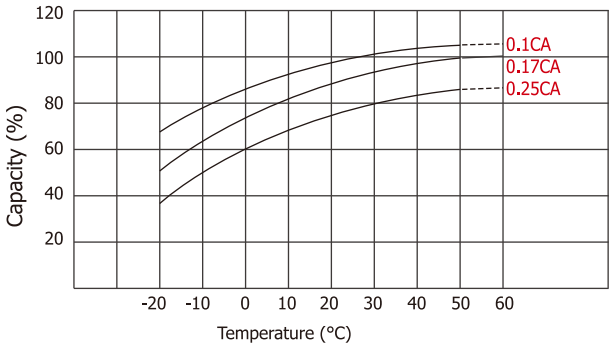
Discharge Characteristics



Temperature Effects With Capacity

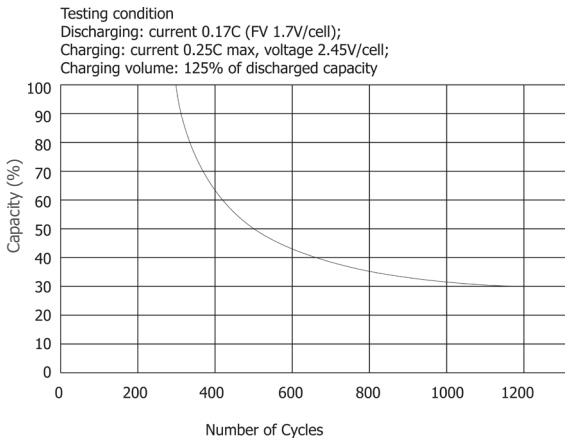


08 UC

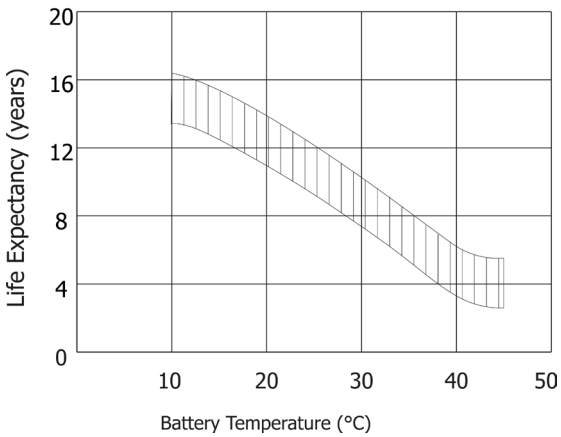
SunStone Unicorn (UC) series is 2V battery. The max capacity can be up to 3000AH. This series is for big UPS demand or big telecom backup systems.

Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
UC2-100	2	100	171	6.7	72	2.8	210	8.2	6.50
UC2-200	2	200	173	6.7	111	4.3	365	14.2	13.00
UC2-300	2	300	171	6.7	151	5.9	365	14.2	19.50
UC2-400	2	400	211	8.2	176	6.9	365	14.2	25.00
UC2-450	2	450	211	8.2	176	6.9	365	14.2	27.00
UC2-500	2	500	241	9.4	172	6.7	365	14.2	30.00
UC2-600	2	600	301	11.7	175	6.8	365	14.2	35.00
UC2-700	2	700	301	11.7	175	6.8	365	14.2	37.50
UC2-800	2	800	410	16.0	176	6.9	365	14.2	49.50
UC2-1000	2	1000	475	18.5	175	6.8	365	14.2	57.00
UC2-1200	2	1200	475	18.5	175	6.8	365	14.2	62.50
UC2-1500	2	1500	401	15.6	351	13.7	378	14.7	89.00
UC2-2000	2	2000	491	19.1	351	13.7	383	14.9	116.00
UC2-3000	2	3000	712	27.8	353	13.8	382	14.9	176.00

Cycle Life With Depth Of Discharge (D.O.D.)



Float Life With Effect Of Temperature



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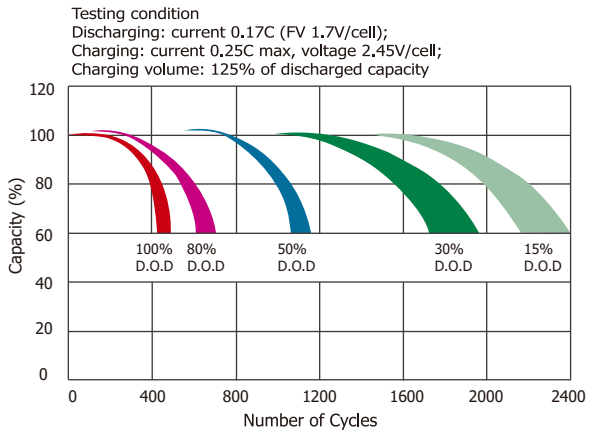
09 UCG

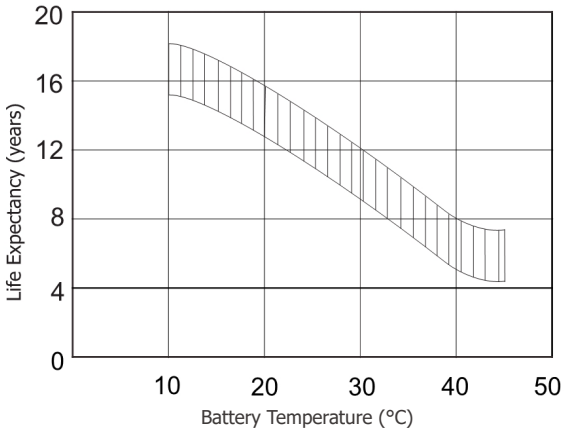
SunStone Unicorn Gel (UCG) series can give longer life than UC series. Same as UC series, the max capacity can be up to 3000AH. We use two ways to protract the life of UCG series batteries: one is adding the thickness of the plate; second is the new design for material in the alloy. Both these two ways will do good to the plate to let up the corrosion from acid. At the same time, the high-Tin design for the alloy will do help to the ability of the deep cycle of UCG series. So UCG series has very good results in solar applications.

Model	Rated Voltage (V)	Rated Capacity (10hr) AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
UCG2-100	2	100	171	6.7	72	2.8	210	8.2	6.50
UCG2-200	2	200	173	6.7	111	4.3	365	14.2	13.00
UCG2-300	2	300	171	6.7	151	5.9	365	14.2	19.50
UCG2-400	2	400	211	8.2	176	6.9	365	14.2	25.00
UCG2-450	2	450	211	8.2	176	6.9	365	14.2	27.00
UCG2-500	2	500	241	9.4	172	6.7	365	14.2	30.00
UCG2-600	2	600	301	11.7	175	6.8	365	14.2	35.00
UCG2-700	2	700	301	11.7	175	6.8	365	14.2	37.50
UCG2-800	2	800	410	16.0	176	6.9	365	14.2	49.50
UCG2-1000	2	1000	475	18.5	175	6.8	365	14.2	57.00
UCG2-1200	2	1200	475	18.5	175	6.8	365	14.2	62.50
UCG2-1500	2	1500	401	15.6	351	13.7	378	14.7	89.00
UCG2-2000	2	2000	491	19.1	351	13.7	383	14.9	116.00
UCG2-3000	2	3000	712	27.8	353	13.8	382	14.9	176.00

Cycle Life With Depth Of Discharge (D.O.D.)



Float Life With Effect Of Temperature



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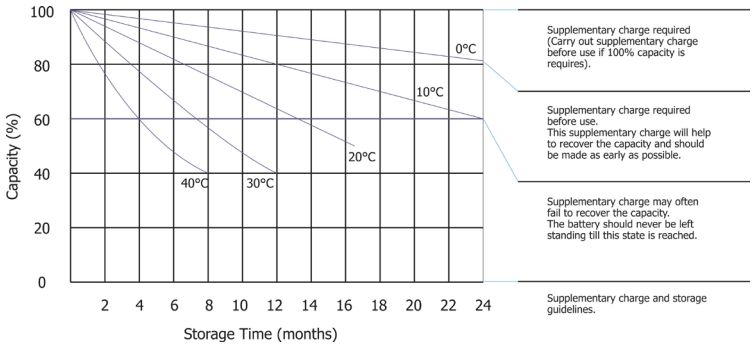
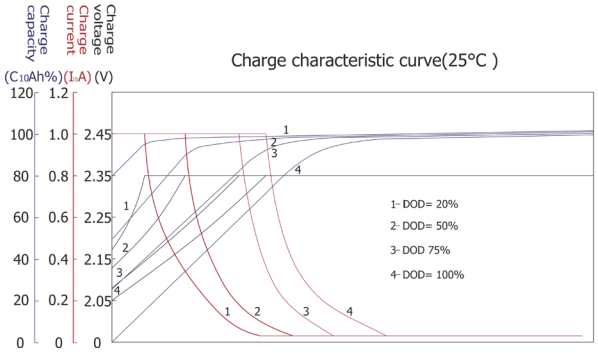
UC & UCG Curve

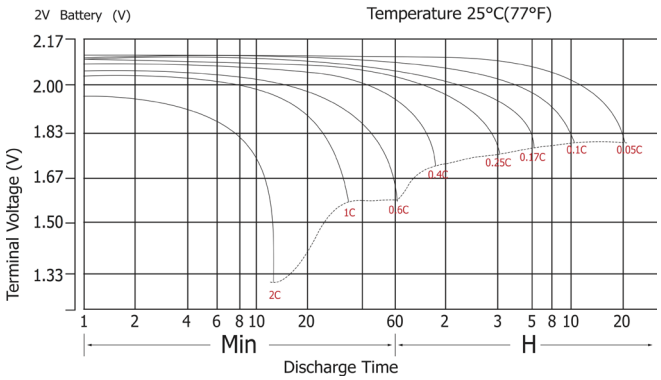
Storage Characteristics



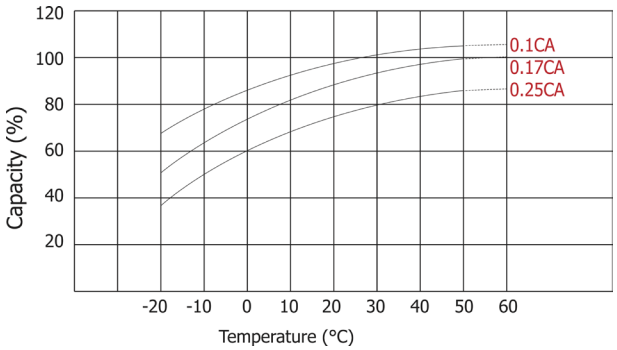
Charge Characteristics



Discharge Characteristics



Temperature Effects With Capacity



10 SLPO

SunStone SLPO series is LiFePO4 (lithium iron phosphate) battery pack for communications standby application, the battery pack adopts the advanced LiFePO4 battery technology with the advantages of long cycle life, small size, lightweight, safety and environmental protection, and also has strong environmental adaptability, it is ideal for harsh outdoor environments.

The battery pack integrates smart battery management and monitoring module, support for remote centralized monitoring and remote battery management and maintenance, to meet the requirements of unattended. Therefore, the SLPO series can fully meet the backup power supply requirements of the access network equipment, mobile communications equipment, transmission equipment, micro base stations, and microwave communication equipment.

Model	Rated Voltage (V)	Rated Capacity AH	Dimension						Weight (KG)
			L		W		H		
			mm	in	mm	in	mm	in	
SLPO12-200	12	200	308	12.0	483	18.8	222	8.7	26.00
SLPO24-100	24	100	308	12.0	483	18.8	222	8.7	26.00
SLPO24-200	24	200	460	17.9	483	18.8	222	8.7	45.00
SLPO48-100	48	100	460	17.9	483	18.8	178	6.9	45.00
SLPO48-200	48	200	580	22.6	483	18.8	220	8.6	90.00

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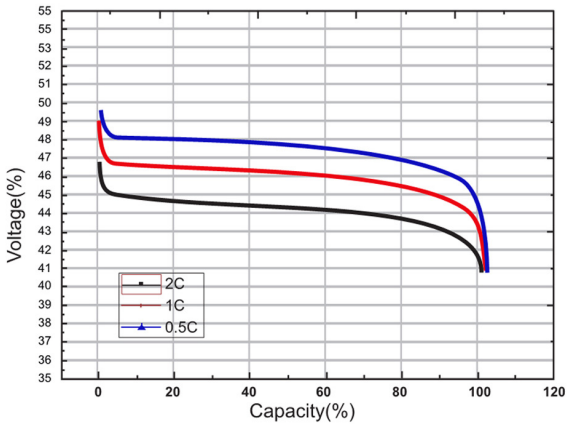
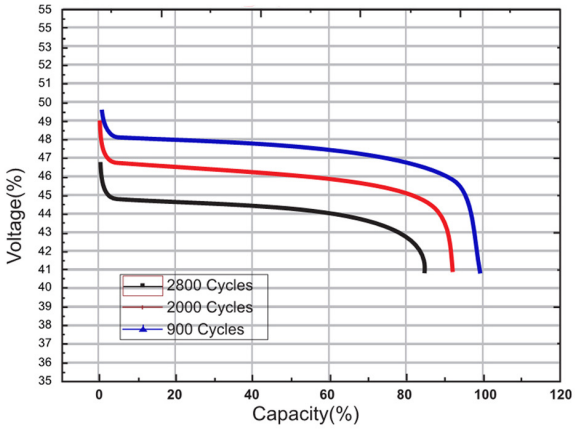
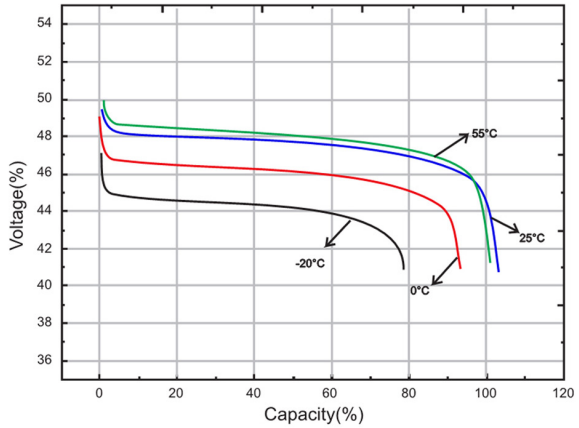
Discharge curve with different C-Rate (0.5C Standard charge)



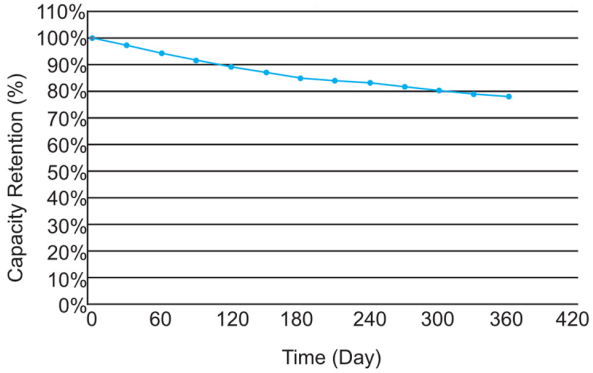
Discharge curve of cycle performance (0.5C Standard charge)



Discharge curve at different temperature (0.5C Standard charge)



Capacity retention curve at room temperature storage (0.5C Standard charge)



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