

* Texas Instruments Data Flash File
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* Device Number 9E34
 * Firmware Version 0.01
 * Build Number 22
 * Order Number 0
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* Field C	SubClass	name	Parameter	Parameter	Display	Data Type	Data Length	Address	Default
Calibrati	Voltage	Cell Gain	12101	-		I	2	0	12101
Calibrati	Voltage	Pack Gain	49669	-		U	2	2	49669
Calibrati	Voltage	BAT Gain	48936	-		U	2	4	48936
Calibrati	Current	CC Gain	1	mOhm		F	4	6	1.036
Calibrati	Current	Capacity	1	mOhm		F	4	10	1.036
Calibrati	Current	Offset	0	-		I	2	14	0
Calibrati	Current	Offset	64	-		U	2	16	64
Calibrati	Current	Offset	0	-		I	2	18	0
Calibrati	Current	Offset	7	hex		B	1	192	3
Calibrati	Current	Offset	-160	-		I	2	193	0
Calibrati	Temperature	Internal	0	掬C		I	1	20	0
Calibrati	Temperature	External1	0	掬C		I	1	21	0
Calibrati	Temperature	External2	-10	掬C		I	1	22	0
Calibrati	Temperature	External3	0	掬C		I	1	23	0
Calibrati	Temperature	External4	0	掬C		I	1	24	0
Calibrati	Internal Temp	Int Gain	-12143	-		I	2	896	-12143
Calibrati	Internal Temp	Int base	6232	-		I	2	898	6232
Calibrati	Internal Temp	Int Min	0	-		I	2	900	0
Calibrati	Internal Temp	Int Max	6232	0.1degK		I	2	902	6232
Calibrati	Cell Temperature	Coeff a1	-18647	-		I	2	904	-11130
Calibrati	Cell Temperature	Coeff a2	32191	-		I	2	906	19142
Calibrati	Cell Temperature	Coeff a3	-25276	-		I	2	908	-19262
Calibrati	Cell Temperature	Coeff a4	29801	-		I	2	910	28203
Calibrati	Cell Temperature	Coeff a5	439	-		I	2	912	892
Calibrati	Cell Temperature	Coeff b1	-3	-		I	2	914	328
Calibrati	Cell Temperature	Coeff b2	13	-		I	2	916	-605
Calibrati	Cell Temperature	Coeff b3	-3076	-		I	2	918	-2443
Calibrati	Cell Temperature	Coeff b4	4969	-		I	2	920	4696
Calibrati	Cell Temperature	Rc0	11703	-		I	2	922	11703
Calibrati	Cell Temperature	Adc0	11703	-		I	2	924	11703
Calibrati	Cell Temperature	Rpad	0	-		I	2	926	0
Calibrati	Cell Temperature	Rint	0	-		I	2	928	0
Calibrati	Fet Temperature	Coeff a1	-11130	-		I	2	930	-11130
Calibrati	Fet Temperature	Coeff a2	19142	-		I	2	932	19142
Calibrati	Fet Temperature	Coeff a3	-19262	-		I	2	934	-19262
Calibrati	Fet Temperature	Coeff a4	28203	-		I	2	936	28203
Calibrati	Fet Temperature	Coeff a5	892	-		I	2	938	892
Calibrati	Fet Temperature	Coeff b1	328	-		I	2	940	328
Calibrati	Fet Temperature	Coeff b2	-605	-		I	2	942	-605
Calibrati	Fet Temperature	Coeff b3	-2443	-		I	2	944	-2443
Calibrati	Fet Temperature	Coeff b4	4696	-		I	2	946	4696

CalibratiFet TemperatuRc0	11703	–	I	2	948	11703
CalibratiFet TemperatuAdc0	11703	–	I	2	950	11703
CalibratiFet TemperatuRpad	0	–	I	2	952	0
CalibratiFet TemperatuRint	0	–	I	2	954	0
CalibratiCurrent DeadlDeadband	3	mA	U	1	966	3
CalibratiCurrent DeadlCoulomb C	9	116nV	U	1	967	9
Settings Protection Protectic	2	hex	B	1	1148	0
Settings Protection Enabled Fff		hex	U	1	1149	ff
Settings Protection Enabled F3f		hex	U	1	1150	3f
Settings Protection Enabled F	0	hex	U	1	1151	d5
Settings Protection Enabled F0c		hex	U	1	1152	0f
Settings Permanent Fa:Enabled F	12	hex	U	1	1269	0
Settings Permanent Fa:Enabled F	0	hex	U	1	1270	0
Settings Permanent Fa:Enabled F0a		hex	U	1	1271	0
Settings Permanent Fa:Enabled F	0	hex	U	1	1272	0
Settings ConfiguratioiCharging	0	hex	B	1	1332	0
Settings ConfiguratioiTemperatu	6	hex	B	1	1401	6
Settings ConfiguratioiTemperatu	18	hex	B	1	1402	4
Settings ConfiguratioiDA Config	37	hex	B	1	1403	12
Settings ConfiguratioiFET Optic	45	hex	B	1	1031	20
Settings ConfiguratioiSbs Gaugi	5	hex	B	1	1032	4
Settings ConfiguratioiSbs Confi	20	hex	B	1	1033	20
Settings ConfiguratioiPower Cor	0	hex	B	1	1035	0
Settings ConfiguratioiIO Config	0	hex	B	1	1036	0
Settings ConfiguratioiLED Confi	0	hex	B	2	1070	00d0
Settings ConfiguratioiSOC Flag 0c8c		hex	B	2	1109	0c8c
Settings ConfiguratioiSOC Flag 8c		hex	B	1	1111	8c
Settings ConfiguratioiBalancing	1	hex	B	1	1551	1
Settings ConfiguratioiCEDV Gaug	603	hex	B	2	1422	200
Settings ConfiguratioiCEDV Smoc	8	hex	B	1	1136	8
Settings AFE AFE Prote	71	hex	U	1	1405	70
Settings AFE ZVCHG Exi	0	mV	I	2	1411	2200
Settings Fuse PF Fuse A	12	hex	U	1	1024	0
Settings Fuse PF Fuse E	0	hex	U	1	1025	0
Settings Fuse PF Fuse C	3	hex	U	1	1026	0
Settings Fuse PF Fuse I	30	hex	U	1	1027	0
Settings Fuse Min Blow	9000	mV	I	2	1028	3500
Settings Fuse Fuse Blow	30	s	U	1	1030	30
Settings BTP Init Disc	150	mAh	I	2	1037	150
Settings BTP Init Char	175	mAh	I	2	1039	175
Settings SMBus Address	16	–	U	1	1041	16
Settings SMBus Address Cea	–		U	1	1042	ea
Settings ManufacturinMfg Statu01f0		hex	B	2	832	0
ProtecticCUV Threshold	2700	mV	I	2	1153	2500
ProtecticCUV Delay	2	s	U	1	1155	2
ProtecticCUV Recovery	2750	mV	I	2	1156	3000
ProtecticCOV Threshold	4250	mV	I	2	1158	4300
ProtecticCOV Threshold	4250	mV	I	2	1160	4300
ProtecticCOV Threshold	4250	mV	I	2	1162	4300
ProtecticCOV Threshold	4250	mV	I	2	1164	4300
ProtecticCOV Delay	2	s	U	1	1166	2
ProtecticCOV Recovery	4100	mV	I	2	1167	3900
ProtecticCOV Recovery	4100	mV	I	2	1169	3900
ProtecticCOV Recovery	4100	mV	I	2	1171	3900

ProtecticCOV	Recovery	4100 mV	I	2	1173	3900
ProtecticOCC1	Threshold	8000 mA	I	2	1175	6000
ProtecticOCC1	Delay	2 s	U	1	1177	6
ProtecticOCC2	Threshold	12000 mA	I	2	1178	8000
ProtecticOCC2	Delay	1 s	U	1	1180	3
ProtecticOCC	Recovery	200 mA	I	2	1181	-200
ProtecticOCC	Recovery	8 s	U	1	1183	5
ProtecticOCD1	Threshold	-14000 mA	I	2	1184	-6000
ProtecticOCD1	Delay	2 s	U	1	1186	6
ProtecticOCD2	Threshold	-20000 mA	I	2	1187	-8000
ProtecticOCD2	Delay	1 s	U	1	1189	3
ProtecticOCD	Recovery	-200 mA	I	2	1190	200
ProtecticOCD	Recovery	8 s	U	1	1192	5
ProtecticAOLD	Latch Lin	0 -	U	1	1193	0
ProtecticAOLD	Counter I	10 s	U	1	1194	10
ProtecticAOLD	Recovery	20 s	U	1	1195	5
ProtecticAOLD	Reset	20 s	U	1	1196	15
ProtecticAOLD	Thresholdcf5	hex	U	1	1406 f4	
ProtecticASCC	Latch Lin	0 -	U	1	1197	0
ProtecticASCC	Counter I	10 s	U	1	1198	10
ProtecticASCC	Recovery	20 s	U	1	1199	5
ProtecticASCC	Reset	20 s	U	1	1200	15
ProtecticASCC	Thresholdcf4	hex	U	1	1407	77
ProtecticASCD	Latch Lin	0 -	U	1	1201	0
ProtecticASCD	Counter I	10 s	U	1	1202	10
ProtecticASCD	Recovery	20 s	U	1	1203	5
ProtecticASCD	Reset	20 s	U	1	1204	15
ProtecticASCD	Thresholdcf4	hex	U	1	1408	77
ProtecticASCD	Thresholdcf4	hex	U	1	1409 e7	
ProtecticOTC	Threshold	50 1掬C	I	2	1205	55
ProtecticOTC	Delay	2 s	U	1	1207	2
ProtecticOTC	Recovery	45 1掬C	I	2	1208	50
ProtecticOTD	Threshold	65 1掬C	I	2	1210	60
ProtecticOTD	Delay	2 s	U	1	1212	2
ProtecticOTD	Recovery	60 1掬C	I	2	1213	55
ProtecticOTF	Threshold	120 1掬C	I	2	1215	80
ProtecticOTF	Delay	2 s	U	1	1217	2
ProtecticOTF	Recovery	80 1掬C	I	2	1218	65
ProtecticUTC	Threshold	-10 1掬C	I	2	1220	0
ProtecticUTC	Delay	2 s	U	1	1222	2
ProtecticUTC	Recovery	0 1掬C	I	2	1223	5
ProtecticUTD	Threshold	-20 1掬C	I	2	1225	0
ProtecticUTD	Delay	2 s	U	1	1227	2
ProtecticUTD	Recovery	-10 1掬C	I	2	1228	5
ProtecticHWD	Delay	10 s	U	1	1230	10
ProtecticPTO	Charge Th	2000 mA	I	2	1231	2000
ProtecticPTO	Suspend I	1800 mA	I	2	1233	1800
ProtecticPTO	Delay	1800 s	U	2	1235	1800
ProtecticPTO	Reset	2 mAh	I	2	1237	2
ProtecticCTO	Charge Th	2500 mA	I	2	1239	2500
ProtecticCTO	Suspend I	2000 mA	I	2	1241	2000
ProtecticCTO	Delay	54000 s	U	2	1243	54000
ProtecticCTO	Reset	2 mAh	I	2	1245	2
ProtecticOC	Threshold	300 mAh	I	2	1247	300

ProtecticOC	Recovery	2 mAh	I	2	1249	2
ProtecticOC	RSOC Recc	90 %	U	1	1251	90
ProtecticCHGV	Threshold	500 mV	I	2	1252	500
ProtecticCHGV	Delay	30 s	U	1	1254	30
ProtecticCHGV	Recovery	-500 mV	I	2	1255	-500
ProtecticCHGC	Threshold	500 mA	I	2	1257	500
ProtecticCHGC	Delay	2 s	U	1	1259	2
ProtecticCHGC	Recovery	100 mA	I	2	1260	100
ProtecticCHGC	Recovery	2 s	U	1	1262	2
ProtecticPCHGC	Threshold	50 mA	I	2	1263	50
ProtecticPCHGC	Delay	2 s	U	1	1265	2
ProtecticPCHGC	Recovery	10 mA	I	2	1266	10
ProtecticPCHGC	Recovery	2 s	U	1	1268	2
PermanentSUV	Threshold	2200 mV	I	2	1273	2200
PermanentSUV	Delay	5 s	U	1	1275	5
PermanentSOV	Threshold	4350 mV	I	2	1276	4500
PermanentSOV	Delay	5 s	U	1	1278	5
PermanentSOCC	Threshold	15000 mA	I	2	1279	10000
PermanentSOCC	Delay	5 s	U	1	1281	5
PermanentSOCD	Threshold	-20000 mA	I	2	1282	-10000
PermanentSOCD	Delay	5 s	U	1	1284	5
PermanentSOT	Threshold	70 1掬C	I	2	1285	65
PermanentSOT	Delay	5 s	U	1	1287	5
PermanentSOTF	Threshold	120 1掬C	I	2	1288	100
PermanentSOTF	Delay	5 s	U	1	1290	5
PermanentOpen Thermis	Threshold	-50 1掬C	I	2	1291	-50
PermanentOpen Thermis	Delay	5 s	U	1	1293	5
PermanentOpen Thermis	Fet Delta	20 1掬C	I	2	1294	20
PermanentOpen Thermis	Cell Delt	20 1掬C	I	2	1296	20
PermanentVIMR	Check Vol	3500 mV	I	2	1298	3500
PermanentVIMR	Check Cur	10 mA	I	2	1300	10
PermanentVIMR	Delta Thr	500 mV	I	2	1302	500
PermanentVIMR	Delta Del	5 s	U	1	1304	5
PermanentVIMR	Duration	100 s	U	2	1305	100
PermanentVIMA	Check Vol	3700 mV	I	2	1307	3700
PermanentVIMA	Check Cur	50 mA	I	2	1309	50
PermanentVIMA	Delta Thr	200 mV	I	2	1311	200
PermanentVIMA	Delay	2 s	U	1	1313	2
PermanentCFET	OFF Thres	500 mA	I	2	1314	5
PermanentCFET	OFF Delay	5 s	U	1	1316	5
PermanentDFET	OFF Thres	-500 mA	I	2	1317	-5
PermanentDFET	OFF Delay	5 s	U	1	1319	5
PermanentFUSE	Threshold	200 mA	I	2	1320	5
PermanentFUSE	Delay	5 s	U	1	1322	5
PermanentAFER	Threshold	100 -	U	1	1323	100
PermanentAFER	Delay Per	2 s	U	1	1324	2
PermanentAFER	Compare F	5 s	U	1	1325	5
PermanentAFEC	Threshold	100 -	U	1	1326	100
PermanentAFEC	Delay Per	5 s	U	1	1327	5
Permanent2LVL	Delay	5 s	U	1	1328	5
PermanentOPNCELL	Threshold	5000 mV	I	2	1329	5000
PermanentOPNCELL	Delay	5 s	U	1	1331	5
Advanced Temperature	1T1 Temp	-10 掬C	I	1	1333	0
Advanced Temperature	1T2 Temp	0 掬C	I	1	1334	12

Advanced Temperature IT5 Temp	10 掬C	I	1	1335	20
Advanced Temperature IT6 Temp	25 掬C	I	1	1336	25
Advanced Temperature IT3 Temp	40 掬C	I	1	1337	30
Advanced Temperature IT4 Temp	55 掬C	I	1	1338	55
Advanced Temperature IHysteresis	1 掬C	I	1	1339	1
Advanced Low Temp ChaVoltage	4200 mV	I	2	1340	4000
Advanced Low Temp ChaCurrent I	3000 mA	I	2	1342	132
Advanced Low Temp ChaCurrent M	3000 mA	I	2	1344	352
Advanced Low Temp ChaCurrent F	3000 mA	I	2	1346	264
Advanced Standard TempVoltage	4200 mV	I	2	1348	4200
Advanced Standard TempCurrent I	6000 mA	I	2	1350	1980
Advanced Standard TempCurrent M	6000 mA	I	2	1352	4004
Advanced Standard TempCurrent F	6000 mA	I	2	1354	2992
Advanced High Temp ChaVoltage	4200 mV	I	2	1356	4000
Advanced High Temp ChaCurrent I	6000 mA	I	2	1358	1012
Advanced High Temp ChaCurrent M	6000 mA	I	2	1360	1980
Advanced High Temp ChaCurrent F	6000 mA	I	2	1362	1496
Advanced Rec Temp ChaVoltage	4200 mV	I	2	1364	4100
Advanced Rec Temp ChaCurrent I	6000 mA	I	2	1366	2508
Advanced Rec Temp ChaCurrent M	6000 mA	I	2	1368	4488
Advanced Rec Temp ChaCurrent F	6000 mA	I	2	1370	3520
Advanced Pre-Charging Current	50 mA	I	2	1372	88
Advanced Maintenance (Current	10 mA	I	2	1374	44
Advanced Voltage RangePrecharge	1000 mV	I	2	1376	2500
Advanced Voltage RangeCharging	3000 mV	I	2	1378	2900
Advanced Voltage RangeCharging	3750 mV	I	2	1380	3600
Advanced Voltage RangeCharging	4000 mV	I	2	1382	4000
Advanced Voltage RangeCharging	0 mV	U	1	1384	0
Advanced SoC Range Charging	50 %	U	1	1385	50
Advanced SoC Range Charging	75 %	U	1	1386	75
Advanced SoC Range Charging	1 %	U	1	1387	1
Advanced Termination (Charge Te	600 mA	I	2	1388	250
Advanced Termination (Charge Te	100 mV	I	2	1392	75
Advanced Charging RateCurrent F	1 steps	U	1	1395	1
Advanced Charging RateVoltage F	1 steps	U	1	1396	1
Advanced Charge Loss (CCC Curre	3520 mA	I	2	1397	3520
Advanced Charge Loss (CCC Volta	4200 mV	I	2	1399	4200
Advanced Cell BalanciCell Balæ	3900 mV	I	2	1552	3900
Advanced Cell BalanciCell Balæ	100 mV	I	2	1554	100
Advanced Cell BalanciCell Balæ	5 mV	U	1	1556	40
Advanced Cell BalanciCell Balæ	20 s	U	1	1557	20
Gas GaugiCurrent Thre:Dsg Curre	100 mA	I	2	1414	100
Gas GaugiCurrent Thre:Chg Curre	50 mA	I	2	1416	50
Gas GaugiCurrent Thre:Quit Curr	40 mA	I	2	1418	10
Gas GaugiCurrent Thre:Dsg Relax	1 s	U	1	1420	1
Gas GaugiCurrent Thre:Chg Relax	60 s	U	1	1421	60
Gas GaugiDesign Design Ca	11100 mAh	I	2	1101	4400
Gas GaugiDesign Design Ca	16000 cWh	I	2	1103	6336
Gas GaugiDesign Design Vc	14400 mV	I	2	1105	14400
Gas GaugiCycle Cycle Cou	80 %	U	1	1107	90
Gas GaugiFD Set Volta	3000 mV	I	2	1112	3000
Gas GaugiFD Clear Vol	3100 mV	I	2	1114	3100
Gas GaugiFD Set % RSC	0 %	U	1	1116	0
Gas GaugiFD Clear % F	5 %	U	1	1117	5

Gas	GaugiFC	Set Volta	4200 mV	I	2	1118	4200
Gas	GaugiFC	Clear Vol	4100 mV	I	2	1120	4100
Gas	GaugiFC	Set % RSC	100 %	U	1	1122	100
Gas	GaugiFC	Clear % F	95 %	U	1	1123	95
Gas	GaugiTD	Set Volta	3200 mV	I	2	1124	3200
Gas	GaugiTD	Clear Vol	3300 mV	I	2	1126	3300
Gas	GaugiTD	Set % RSC	6 %	U	1	1128	6
Gas	GaugiTD	Clear % F	8 %	U	1	1129	8
Gas	GaugiTC	Set Volta	4200 mV	I	2	1130	4200
Gas	GaugiTC	Clear Vol	4100 mV	I	2	1132	4100
Gas	GaugiTC	Set % RSC	100 %	U	1	1134	100
Gas	GaugiTC	Clear % F	95 %	U	1	1135	95
Gas	GaugiState	Cycle Cou	1 -	U	2	320	0
Gas	GaugiState	Learned F	11100 mAh	I	2	256	4400
Gas	GaugiCEDV cfg	EMF	3743 -	U	2	1424	3743
Gas	GaugiCEDV cfg	C0	149 -	U	2	1426	149
Gas	GaugiCEDV cfg	R0	867 -	U	2	1428	867
Gas	GaugiCEDV cfg	T0	4030 -	U	2	1430	4030
Gas	GaugiCEDV cfg	R1	316 -	U	2	1432	316
Gas	GaugiCEDV cfg	TC	9 -	U	1	1434	9
Gas	GaugiCEDV cfg	C1	0 -	U	1	1435	0
Gas	GaugiCEDV cfg	Age Factc	0 -	U	1	1436	0
Gas	GaugiCEDV cfg	Fixed EDV	3200 -	I	2	1437	3031
Gas	GaugiCEDV cfg	EDV 0 Hol	1 s	U	1	1439	1
Gas	GaugiCEDV cfg	Fixed EDV	3200 -	I	2	1440	3385
Gas	GaugiCEDV cfg	EDV 1 Hol	1 s	U	1	1442	1
Gas	GaugiCEDV cfg	Fixed EDV	3200 -	I	2	1443	3501
Gas	GaugiCEDV cfg	EDV 2 Hol	1 s	U	1	1445	1
Gas	GaugiCEDV cfg	Battery I	0 %	U	2	1516	7
Gas	GaugiCEDV cfg	Min Delta	10 mV	I	2	1520	10
Gas	GaugiCEDV cfg	Learning	119 0.1掬C	U	1	1529	119
Gas	GaugiCEDV cfg	OverLoad	14000 mA	I	2	1538	5000
Gas	GaugiCEDV cfg	Self Disc	4 0.01%/dayU		1	1542	20
Gas	GaugiCEDV cfg	Electroni	44 3uA	I	2	1543	0
Gas	GaugiCEDV cfg	Near Full	20 mAh	I	2	1545	200
Gas	GaugiCEDV cfg	Reserve C	0 mAh	I	2	1547	0
Gas	GaugiCEDV cfg	Chg Eff	100 %	U	1	1549	100
Gas	GaugiCEDV cfg	Dsg Eff	100 %	U	1	1550	100
Gas	GaugiCEDV Profile Voltage C		4120 mV	I	2	1446	4173
Gas	GaugiCEDV Profile Voltage 1		4040 mV	I	2	1448	4043
Gas	GaugiCEDV Profile Voltage 2		3917 mV	I	2	1450	3925
Gas	GaugiCEDV Profile Voltage 3		3828 mV	I	2	1452	3821
Gas	GaugiCEDV Profile Voltage 4		3731 mV	I	2	1454	3725
Gas	GaugiCEDV Profile Voltage 5		3651 mV	I	2	1456	3656
Gas	GaugiCEDV Profile Voltage 6		3608 mV	I	2	1458	3619
Gas	GaugiCEDV Profile Voltage 7		3562 mV	I	2	1460	3582
Gas	GaugiCEDV Profile Voltage 8		3485 mV	I	2	1462	3515
Gas	GaugiCEDV Profile Voltage 9		3375 mV	I	2	1464	3439
Gas	GaugiCEDV Profile Voltage 1		3280 mV	I	2	1466	2713
Gas	GaugiCEDV Smoothing	Smoothing	3700 mV	I	2	1137	3700
Gas	GaugiCEDV Smoothing		100 mV	I	2	1139	100
Gas	GaugiCEDV Smoothing	Max Smoot	1000 mA	U	2	1141	8000
Gas	GaugiCEDV Smoothing	EOC Smoot	0.2 %	U	1	1146	0.2
Gas	GaugiCEDV Smoothing	EOC Smoot	60 s	U	1	1147	60

Power	Power	Valid Upc	3500 mV	I	2	1043	3500
Power	Shutdown	Shutdown	2625 mV	I	2	1045	1750
Power	Shutdown	Shutdown	10 s	U	1	1047	10
Power	Shutdown	PF Shutdc	2625 mV	I	2	1048	1750
Power	Shutdown	PF Shutdc	10 s	U	1	1050	10
Power	Shutdown	Charger F	7700 mV	I	2	1051	3000
Power	Sleep	Sleep Cur	40 mA	I	2	1053	10
Power	Sleep	Bus Timec	5 s	U	1	1055	5
Power	Sleep	Voltage 1	20 s	U	1	1060	5
Power	Sleep	Current 1	20 s	U	1	1061	20
Power	Sleep	Wake Comp	0 hex	U	1	1062	0
Power	Ship	FET Off 1	3 s	U	1	1063	10
Power	Ship	Delay	6 s	U	1	1064	20
Power	Ship	Auto Ship	43200 min	U	2	1065	1440
Power	Power Off	Timeout	43200 min	U	2	1067	30
Power	Manual	FET C&MFC Delay	60 s	U	1	1069	60
PF StatusDevice	StatusSafety Al	0 hex	U	1	576	0	
PF StatusDevice	StatusSafety St	0 hex	U	1	577	0	
PF StatusDevice	StatusSafety Al	0 hex	U	1	578	0	
PF StatusDevice	StatusSafety St	0 hex	U	1	579	0	
PF StatusDevice	StatusSafety Al	0 hex	U	1	580	0	
PF StatusDevice	StatusSafety St	0 hex	U	1	581	0	
PF StatusDevice	StatusSafety Al	0 hex	U	1	582	0	
PF StatusDevice	StatusSafety St	0 hex	U	1	583	0	
PF StatusDevice	StatusPF Alert	0 hex	U	1	584	0	
PF StatusDevice	StatusPF Status	0 hex	U	1	585	0	
PF StatusDevice	StatusPF Alert	0 hex	U	1	586	0	
PF StatusDevice	StatusPF Status	0 hex	U	1	587	0	
PF StatusDevice	StatusPF Alert	0 hex	U	1	588	0	
PF StatusDevice	StatusPF Status	0 hex	U	1	589	0	
PF StatusDevice	StatusPF Alert	0 hex	U	1	590	0	
PF StatusDevice	StatusPF Status	0 hex	U	1	591	0	
PF StatusDevice	StatusFuse Flag	0 hex	U	2	592	0	
PF StatusDevice	StatusOperatior	0 hex	B	2	594	0	
PF StatusDevice	StatusOperatior	0 hex	B	2	596	0	
PF StatusDevice	StatusTemp Rang	0 hex	U	1	598	0	
PF StatusDevice	StatusCharging	0 hex	B	1	599	0	
PF StatusDevice	StatusCharging	0 hex	B	1	600	0	
PF StatusDevice	StatusGauging S	0 hex	B	1	601	0	
PF StatusDevice	StatusCEDV Stat	0 hex	B	1	602	0	
PF StatusDevice	VoltaCell 1 Vc	0 mV	I	2	603	0	
PF StatusDevice	VoltaCell 2 Vc	0 mV	I	2	605	0	
PF StatusDevice	VoltaCell 3 Vc	0 mV	I	2	607	0	
PF StatusDevice	VoltaCell 4 Vc	0 mV	I	2	609	0	
PF StatusDevice	VoltaBattery I	0 mV	I	2	611	0	
PF StatusDevice	VoltaPack Volt	0 mV	I	2	613	0	
PF StatusDevice	CurrelCurrent	0 mA	I	2	615	0	
PF StatusDevice	TempeInternal	-273.2 掬C	I	2	617	-273.2	
PF StatusDevice	TempeExternal	-273.2 掬C	I	2	619	-273.2	
PF StatusDevice	TempeExternal	-273.2 掬C	I	2	621	-273.2	
PF StatusDevice	TempeExternal	-273.2 掬C	I	2	623	-273.2	
PF StatusDevice	TempeExternal	-273.2 掬C	I	2	625	-273.2	
PF StatusAFE Regs	AFE Inter	0 hex	U	1	627	0	
PF StatusAFE Regs	AFE FET S	0 hex	U	1	628	0	

PF Status	AFE Regs	AFE RXIN	0 hex	U	1	629	0
PF Status	AFE Regs	AFE Latch	0 hex	U	1	630	0
PF Status	AFE Regs	AFE Inter	0 hex	U	1	631	0
PF Status	AFE Regs	AFE FET C	0 hex	U	1	632	0
PF Status	AFE Regs	AFE RXIEN	0 hex	U	1	633	0
PF Status	AFE Regs	AFE RLOUT	0 hex	U	1	634	0
PF Status	AFE Regs	AFE RHOUT	0 hex	U	1	635	0
PF Status	AFE Regs	AFE RHIN1	0 hex	U	1	636	0
PF Status	AFE Regs	AFE Cell	0 hex	U	1	637	0
PF Status	AFE Regs	AFE AD/CC	0 hex	U	1	638	0
PF Status	AFE Regs	AFE ADC M	0 hex	U	1	639	0
PF Status	AFE Regs	AFE LED C	0 hex	U	1	640	0
PF Status	AFE Regs	AFE State	0 hex	U	1	641	0
PF Status	AFE Regs	AFE LED/W	0 hex	U	1	642	0
PF Status	AFE Regs	AFE Prote	0 hex	U	1	643	0
PF Status	AFE Regs	AFE OCD	0 hex	U	1	644	0
PF Status	AFE Regs	AFE SCC	0 hex	U	1	645	0
PF Status	AFE Regs	AFE SCD1	0 hex	U	1	646	0
PF Status	AFE Regs	AFE SCD2	0 hex	U	1	647	0
System De	Manufacturer	Manufactu	32 –	U	1	64	32
System De	Manufacturer	Manufactu	61 Hex	U	1	65	61
System De	Manufacturer	Manufactu	62 Hex	U	1	66	62
System De	Manufacturer	Manufactu	63 Hex	U	1	67	63
System De	Manufacturer	Manufactu	64 Hex	U	1	68	64
System De	Manufacturer	Manufactu	65 Hex	U	1	69	65
System De	Manufacturer	Manufactu	66 Hex	U	1	70	66
System De	Manufacturer	Manufactu	67 Hex	U	1	71	67
System De	Manufacturer	Manufactu	68 Hex	U	1	72	68
System De	Manufacturer	Manufactu	69 Hex	U	1	73	69
System De	Manufacturer	Manufactu	6a Hex	U	1	74 6a	
System De	Manufacturer	Manufactu	6b Hex	U	1	75 6b	
System De	Manufacturer	Manufactu	6c Hex	U	1	76 6c	
System De	Manufacturer	Manufactu	6d Hex	U	1	77 6d	
System De	Manufacturer	Manufactu	6e Hex	U	1	78 6e	
System De	Manufacturer	Manufactu	6f Hex	U	1	79 6f	
System De	Manufacturer	Manufactu	70 Hex	U	1	80	70
System De	Manufacturer	Manufactu	71 Hex	U	1	81	71
System De	Manufacturer	Manufactu	72 Hex	U	1	82	72
System De	Manufacturer	Manufactu	73 Hex	U	1	83	73
System De	Manufacturer	Manufactu	74 Hex	U	1	84	74
System De	Manufacturer	Manufactu	75 Hex	U	1	85	75
System De	Manufacturer	Manufactu	76 Hex	U	1	86	76
System De	Manufacturer	Manufactu	77 Hex	U	1	87	77
System De	Manufacturer	Manufactu	7a Hex	U	1	88 7a	
System De	Manufacturer	Manufactu	78 Hex	U	1	89	78
System De	Manufacturer	Manufactu	79 Hex	U	1	90	79
System De	Manufacturer	Manufactu	30 Hex	U	1	91	30
System De	Manufacturer	Manufactu	31 Hex	U	1	92	31
System De	Manufacturer	Manufactu	32 Hex	U	1	93	32
System De	Manufacturer	Manufactu	33 Hex	U	1	94	33
System De	Manufacturer	Manufactu	34 Hex	U	1	95	34
System De	Manufacturer	Manufactu	35 Hex	U	1	96	35
System De	Manufacturer	Manufactu	1 Hex	U	1	98	1
System De	Manufacturer	Manufactu	23 Hex	U	1	99	23

System DeManufacturer	Manufacturer	45 Hex	U	1	100	45
System DeManufacturer	Manufacturer	67 Hex	U	1	101	67
System DeIntegrity	Static DF	0 hex	U	2	102	0
System DeIntegrity	Static Ch6c98	hex	U	2	104 6c98	
System DeIntegrity	All DF Si	0 hex	U	2	106	0
SBS ConfiData	Remaining	300 mAh	I	2	1091	300
SBS ConfiData	Remaining	432 cWh	I	2	1093	432
SBS ConfiData	Remaining	10 min	U	2	1095	10
SBS ConfiData	Initial E	81 hex	B	2	1097	81
SBS ConfiData	Specifica	31 hex	U	2	1099	31
SBS ConfiData	Manufactu #####	date	U	2	108 1980/1/1	
SBS ConfiData	Serial N	0 hex	U	2	110	1
SBS ConfiData	Manufactu SonyCorp.	-	S	21	112 Texas Ins	
SBS ConfiData	Device N	PB-R160S -	S	21	133 bq4050	
SBS ConfiData	Device ChLION	-	S	5	154 LION	
LED SuppcLED Config	LED Flash	512 488us	U	2	1072	512
LED SuppcLED Config	LED Blink	1024 488us	U	2	1074	1024
LED SuppcLED Config	LED Delay	100 488us	U	2	1076	100
LED SuppcLED Config	LED Hold	4 s	U	1	1078	4
LED SuppcLED Config	CHG Flash	10 %	I	1	1079	10
LED SuppcLED Config	CHG Thres	0 %	I	1	1080	0
LED SuppcLED Config	CHG Thres	20 %	I	1	1081	20
LED SuppcLED Config	CHG Thres	40 %	I	1	1082	40
LED SuppcLED Config	CHG Thres	60 %	I	1	1083	60
LED SuppcLED Config	CHG Thres	80 %	I	1	1084	80
LED SuppcLED Config	DSG Flash	10 %	I	1	1085	10
LED SuppcLED Config	DSG Thres	0 %	I	1	1086	0
LED SuppcLED Config	DSG Thres	20 %	I	1	1087	20
LED SuppcLED Config	DSG Thres	40 %	I	1	1088	40
LED SuppcLED Config	DSG Thres	60 %	I	1	1089	60
LED SuppcLED Config	DSG Thres	80 %	I	1	1090	80
Black BoxSafety Statu:1st Statu		0 hex	U	1	512	0
Black BoxSafety Statu:1st Statu		0 hex	U	1	513	0
Black BoxSafety Statu:1st Safet		0 hex	U	1	514	0
Black BoxSafety Statu:1st Safet		0 hex	U	1	515	0
Black BoxSafety Statu:1st Time		0 s	U	1	516	0
Black BoxSafety Statu:2nd Statu		0 hex	U	1	517	0
Black BoxSafety Statu:2nd Statu		0 hex	U	1	518	0
Black BoxSafety Statu:2nd Safet		0 hex	U	1	519	0
Black BoxSafety Statu:2nd Safet		0 hex	U	1	520	0
Black BoxSafety Statu:2nd Time		0 s	U	1	521	0
Black BoxSafety Statu:3rd Statu		0 hex	U	1	522	0
Black BoxSafety Statu:3rd Statu		0 hex	U	1	523	0
Black BoxSafety Statu:3rd Safet		0 hex	U	1	524	0
Black BoxSafety Statu:3rd Safet		0 hex	U	1	525	0
Black BoxSafety Statu:3rd Time		0 s	U	1	526	0
Black BoxPF Status	1st PF St	0 hex	U	1	527	0
Black BoxPF Status	1st PF St	0 hex	U	1	528	0
Black BoxPF Status	1st PF St	0 hex	U	1	529	0
Black BoxPF Status	1st PF St	0 hex	U	1	530	0
Black BoxPF Status	1st Time	0 s	U	1	531	0
Black BoxPF Status	2nd PF St	0 hex	U	1	532	0
Black BoxPF Status	2nd PF St	0 hex	U	1	533	0
Black BoxPF Status	2nd PF St	0 hex	U	1	534	0

Black BoxPF Status	2nd PF St	0 hex	U	1	535	0
Black BoxPF Status	2nd Time	0 s	U	1	536	0
Black BoxPF Status	3rd PF St	0 hex	U	1	537	0
Black BoxPF Status	3rd PF St	0 hex	U	1	538	0
Black BoxPF Status	3rd PF St	0 hex	U	1	539	0
Black BoxPF Status	3rd PF St	0 hex	U	1	540	0
Black BoxPF Status	3rd Time	0 s	U	1	541	0
LifetimesVoltage	Cell 1 Ma	3600 mV	I	2	384	0
LifetimesVoltage	Cell 2 Ma	3600 mV	I	2	386	0
LifetimesVoltage	Cell 3 Ma	3600 mV	I	2	388	0
LifetimesVoltage	Cell 4 Ma	3600 mV	I	2	390	0
LifetimesVoltage	Cell 1 Mi	3600 mV	I	2	392	32767
LifetimesVoltage	Cell 2 Mi	3600 mV	I	2	394	32767
LifetimesVoltage	Cell 3 Mi	3600 mV	I	2	396	32767
LifetimesVoltage	Cell 4 Mi	3600 mV	I	2	398	32767
LifetimesVoltage	Max Delta	0 mV	I	2	400	0
LifetimesCurrent	Max Charge	0 mA	I	2	402	0
LifetimesCurrent	Max Discharge	0 mA	I	2	404	0
LifetimesCurrent	Max Avg I	0 mA	I	2	406	0
LifetimesCurrent	Max Avg I	0 cW	I	2	408	0
LifetimesTemperature	Max Temp	25 掬C	I	1	410	-128
LifetimesTemperature	Min Temp	25 掬C	I	1	411	127
LifetimesTemperature	Max Delta	0 掬C	I	1	412	0
LifetimesTemperature	Max Temp	25 掬C	I	1	413	-128
LifetimesTemperature	Min Temp	25 掬C	I	1	414	127
LifetimesTemperature	Max Temp	25 掬C	I	1	415	-128
LifetimesSafety Event:No Of COV		0 events	U	2	416	0
LifetimesSafety Event>Last COV		0 cycles	U	2	418	0
LifetimesSafety Event:No Of CUV		0 events	U	2	420	0
LifetimesSafety Event>Last CUV		0 cycles	U	2	422	0
LifetimesSafety Event:No Of OCI		0 events	U	2	424	0
LifetimesSafety Event>Last OCD1		0 cycles	U	2	426	0
LifetimesSafety Event:No Of OCI		0 events	U	2	428	0
LifetimesSafety Event>Last OCD2		0 cycles	U	2	430	0
LifetimesSafety Event:No Of OCC		0 events	U	2	432	0
LifetimesSafety Event>Last OCC1		0 cycles	U	2	434	0
LifetimesSafety Event:No Of OCC		0 events	U	2	436	0
LifetimesSafety Event>Last OCC2		0 cycles	U	2	438	0
LifetimesSafety Event:No Of AOI		0 events	U	2	440	0
LifetimesSafety Event>Last AOL1		0 cycles	U	2	442	0
LifetimesSafety Event:No Of ASC		0 events	U	2	444	0
LifetimesSafety Event>Last ASC1		0 cycles	U	2	446	0
LifetimesSafety Event:No Of ASC		0 events	U	2	448	0
LifetimesSafety Event>Last ASCC		0 cycles	U	2	450	0
LifetimesSafety Event:No Of OTC		0 events	U	2	452	0
LifetimesSafety Event>Last OTC		0 cycles	U	2	454	0
LifetimesSafety Event:No Of OTI		0 events	U	2	456	0
LifetimesSafety Event>Last OTD		0 cycles	U	2	458	0
LifetimesSafety Event:No Of OTF		0 events	U	2	460	0
LifetimesSafety Event>Last OTF		0 cycles	U	2	462	0
LifetimesCharging EventNo Valid		0 events	U	2	464	0
LifetimesCharging EventLast Valid		0 cycles	U	2	466	0
LifetimesPower Events No Of Shut		0 events	U	1	468	0
LifetimesCell BalancingCb Time C		0 h	U	1	472	0

LifetimesCell Balanci	Cb Time C	0 h	U	1	473	0
LifetimesCell Balanci	Cb Time C	0 h	U	1	474	0
LifetimesCell Balanci	Cb Time C	0 h	U	1	475	0
LifetimesTime	Total Fw	0 h	U	2	476	0
LifetimesTime	Time Sper	0 h	U	2	478	0
LifetimesTime	Time Sper	0 h	U	2	480	0
LifetimesTime	Time Sper	0 h	U	2	482	0
LifetimesTime	Time Sper	0 h	U	2	484	0
LifetimesTime	Time Sper	0 h	U	2	486	0
LifetimesTime	Time Sper	0 h	U	2	488	0
LifetimesTime	Time Sper	0 h	U	2	490	0

Minimum	Maximum	Display	Read For	Write For	Flags	Help	Native Unit	Data Format
-32767	32767	ddd	x	x			—	0x452f
0	65535	ddd	x	x			—	0x05c2
0	65535	ddd	x	x			—	0x28bf
1.00E-01	4.00E+00	ff.fff	3.714528/	3.714528/	x		—	0xd4ba6d4
2.98E+04	1.19E+06	ff.fff	1107901.11	1107901.13/	x		—	0xe93d874
-32767	32767	ddd	x	x			—	0x0000
0	65535	ddd	x	x			—	0x4000
-32768	32767	ddd	x	x			—	0x0000
0x00	0x07	hh	x	x	RSVD RSVD RSVD RSV	hex		0x07
-10000	10000	ddd	x	x			—	0x60ff
-128	127	dd.d	x	x			0.1掬C	0x00
-128	127	dd.d	x	x			0.1掬C	0x00
-128	127	dd.d	x	x			0.1掬C	0x9c
-128	127	dd.d	x	x			0.1掬C	0x00
-128	127	dd.d	x	x			0.1掬C	0x00
-32768	32767	ddd	x	x			—	0x91d0
-32768	32767	ddd	x	x			—	0x5818
-32768	32767	ddd	x	x			—	0x0000
-32768	32767	ddd	x	x			0.1degK	0x5818
-32768	32767	ddd	x	x			—	0x29b7
-32768	32767	ddd	x	x			—	0xbf7d
-32768	32767	ddd	x	x			—	0x449d
-32768	32767	ddd	x	x			—	0x6974
-32768	32767	ddd	x	x			—	0xb701
-32768	32767	ddd	x	x			—	0xfdff
-32768	32767	ddd	x	x			—	0x0d00
-32768	32767	ddd	x	x			—	0xfcfc3
-32768	32767	ddd	x	x			—	0x6913
-32768	32767	ddd	x	x			—	0xb72d
-32768	32767	ddd	x	x			—	0xb72d
-32768	32767	ddd	x	x			—	0x0000
-32768	32767	ddd	x	x			—	0x0000
-32768	32767	ddd	x	x			—	0x86d4
-32768	32767	ddd	x	x			—	0xc64a
-32768	32767	ddd	x	x			—	0xc2b4
-32768	32767	ddd	x	x			—	0x2b6e
-32768	32767	ddd	x	x			—	0x7c03
-32768	32767	ddd	x	x			—	0x4801
-32768	32767	ddd	x	x			—	0xa3fd
-32768	32767	ddd	x	x			—	0x75f6
-32768	32767	ddd	x	x			—	0x5812

-32768	32767	ddd	x	x	-	0xb72d
-32768	32767	ddd	x	x	-	0xb72d
-32768	32767	ddd	x	x	-	0x0000
-32768	32767	ddd	x	x	-	0x0000
0	255	ddd	x	x	mA	0x03
0	255	ddd	x	x	116nV	0x09
0 0x03	hh	x	x	RSVD RSVD RSVD RSV	hex	0x02
0 0xff	hh	x	x	AOLDL RSVD_1 OCD2	hex	0xff
0 0xff	hh	x	x	RSVD RSVD OTD OTC	hex	0x3f
0 0xff	hh	x	x	CHGC OC RSVD CTO F	hex	0x00
0 0xff	hh	x	x	RSVD RSVD RSVD RSV	hex	0x0c
0 0xff	hh	x	x	RSVD SOTF RSVD SOT	hex	0x12
0 0xff	hh	x	x	RSVD RSVD RSVD VIM	hex	0x00
0 0xff	hh	x	x	PTC 2LVL AFEC AFEF	hex	0x0a
0 0xff	hh	x	x	TS4 TS3 TS2 TS1 RS	hex	0x00
0 0x3f	hh	x	x	RSVD RSVD RSVD RSV	hex	0x00
0 0x1f	hh	x	x	RSVD RSVD RSVD TS4	hex	0x06
0 0x1f	hh	x	x	RSVD RSVD RSVD TS4	hex	0x18
0 0xff	hh	x	x	FTEMP CTEMP EMSHU1	hex	0x37
0 0xff	hh	x	x	PACK_FUSE SLEEPCH	hex	0x45
0 0x0f	hh	x	x	RSVD RSVD RSVD RSV	hex	0x05
0 0xff	hh	x	x	RSVD RSVD BLT1 BL1	hex	0x20
0 0x81	hh	x	x	RSVD RSVD RSVD RSV	hex	0x00
0 0x03	hh	x	x	RSVD RSVD RSVD RSV	hex	0x00
0 0x01ff	hhhh	x	x	RSVD RSVD RSVD RSV	hex	0x0000
0 0x0fff	hhhh	x	x	RSVD RSVD RSVD RSV	hex	0x8c0c
0 0xff	hh	x	x	FCCLEARRSOC FCSETF	hex	0x8c
0 0xff	hh	x	x	RSVD RSVD RSVD RSV	hex	0x01
0 0x1FFF	hhhh	x	x	RSVD RSVD RSVD SME	hex	0x0306
0 0xff	hh	x	x	RSVD RSVD RSVD RSV	hex	0x08
0 0xff	hh	x	x	RSTRIM3 RSTRIM2 RS	hex	0x71
0	8000	ddd	x	x	mV	0x0000
0 0xff	hh	x	x	RSVD SOTF RSVD SOT	hex	0x12
0 0xff	hh	x	x	RSVD RSVD RSVD VIM	hex	0x00
0 0xff	hh	x	x	PTC 2LVL AFEC AFEF	hex	0x03
0 0xff	hh	x	x	TS4 TS3 TS2 TS1 RS	hex	0x30
0	65535	ddd	x	x	mV	0x2823
0	255	ddd	x	x	s	0x1e
0	32767	ddd	x	x	mAh	0x9600
0	32767	ddd	x	x	mAh	0xaf00
0 0xff	hh	x	x	-	-	0x16
0 0xff	hh	x	x	-	-	0xea
0 0xffff	hhhh	x	x	RSVD RSVD RSVD RSV	hex	0xf001
0	32767	ddd	x	x	mV	0x8c0a
0	255	ddd	x	x	s	0x02
0	32767	ddd	x	x	mV	0xbe0a
0	32767	ddd	x	x	mV	0x9a10
0	32767	ddd	x	x	mV	0x9a10
0	32767	ddd	x	x	mV	0x9a10
0	32767	ddd	x	x	mV	0x9a10
0	255	ddd	x	x	s	0x02
0	32767	ddd	x	x	mV	0x0410
0	32767	ddd	x	x	mV	0x0410
0	32767	ddd	x	x	mV	0x0410

0	32767 ddd	x	x	mV	0x0410
-32768	32767 ddd	x	x	mA	0x401f
0	255 ddd	x	x	s	0x02
-32768	32767 ddd	x	x	mA	0xe02e
0	255 ddd	x	x	s	0x01
-32768	32767 ddd	x	x	mA	0xc800
0	255 ddd	x	x	s	0x08
-32768	32767 ddd	x	x	mA	0x50c9
0	255 ddd	x	x	s	0x02
-32768	32767 ddd	x	x	mA	0xe0b1
0	255 ddd	x	x	s	0x01
-32768	32767 ddd	x	x	mA	0x38ff
0	255 ddd	x	x	s	0x08
0	255 ddd	x	x	-	0x00
0	255 ddd	x	x	s	0x0a
0	255 ddd	x	x	s	0x14
0	255 ddd	x	x	s	0x14
0 0xff	hh	x	x	hex	0xf5
0	255 ddd	x	x	-	0x00
0	255 ddd	x	x	s	0x0a
0	255 ddd	x	x	s	0x14
0	255 ddd	x	x	s	0x14
0 0xff	hh	x	x	hex	0xf4
0	255 ddd	x	x	-	0x00
0	255 ddd	x	x	s	0x0a
0	255 ddd	x	x	s	0x14
0	255 ddd	x	x	s	0x14
0 0xff	hh	x	x	hex	0xf4
0 0xff	hh	x	x	hex	0xf4
-400	1500 dd. d	x	x	0.1掬C	0xf401
0	255 ddd	x	x	s	0x02
-400	1500 dd. d	x	x	0.1掬C	0xc201
-400	1500 dd. d	x	x	0.1掬C	0x8a02
0	255 ddd	x	x	s	0x02
-400	1500 dd. d	x	x	0.1掬C	0x5802
-400	1500 dd. d	x	x	0.1掬C	0xb004
0	255 ddd	x	x	s	0x02
-400	1500 dd. d	x	x	0.1掬C	0x2003
-400	1500 dd. d	x	x	0.1掬C	0x9cff
0	255 ddd	x	x	s	0x02
-400	1500 dd. d	x	x	0.1掬C	0x0000
-400	1500 dd. d	x	x	0.1掬C	0x38ff
0	255 ddd	x	x	s	0x02
-400	1500 dd. d	x	x	0.1掬C	0x9cff
0	255 ddd	x	x	s	0x0a
-32768	32767 ddd	x	x	mA	0xd007
-32768	32767 ddd	x	x	mA	0x0807
0	65535 ddd	x	x	s	0x0807
0	32767 ddd	x	x	mAh	0x0200
-32768	32767 ddd	x	x	mA	0xc409
-32768	32767 ddd	x	x	mA	0xd007
0	65535 ddd	x	x	s	0xf0d2
0	32767 ddd	x	x	mAh	0x0200
-32768	32767 ddd	x	x	mAh	0x2c01

-32768	32767 ddd	x	x	mAh	0x0200
0	100 ddd	x	x	%	0x5a
-32768	32767 ddd	x	x	mV	0xf401
0	255 ddd	x	x	s	0x1e
-32768	32767 ddd	x	x	mV	0x0cfe
-32768	32767 ddd	x	x	mA	0xf401
0	255 ddd	x	x	s	0x02
-32768	32767 ddd	x	x	mA	0x6400
0	255 ddd	x	x	s	0x02
-32768	32767 ddd	x	x	mA	0x3200
0	255 ddd	x	x	s	0x02
-32768	32767 ddd	x	x	mA	0x0a00
0	255 ddd	x	x	s	0x02
0	32767 ddd	x	x	mV	0x9808
0	255 ddd	x	x	s	0x05
0	32767 ddd	x	x	mV	0xfe10
0	255 ddd	x	x	s	0x05
-32768	32767 ddd	x	x	mA	0x983a
0	255 ddd	x	x	s	0x05
-32768	32767 ddd	x	x	mA	0xe0b1
0	255 ddd	x	x	s	0x05
-400	1500 dd. d	x	x	0.1掬C	0xbc02
0	255 ddd	x	x	s	0x05
-400	1500 dd. d	x	x	0.1掬C	0xb004
0	255 ddd	x	x	s	0x05
0	32767 dd. d	x-2732	x+2732	0.1degK	0xb808
0	255 ddd	x	x	s	0x05
-400	1500 dd. d	x	x	0.1掬C	0xc800
-400	1500 dd. d	x	x	0.1掬C	0xc800
0	5000 ddd	x	x	mV	0xac0d
0	32767 ddd	x	x	mA	0x0a00
0	5000 ddd	x	x	mV	0xf401
0	255 ddd	x	x	s	0x05
0	65535 ddd	x	x	s	0x6400
0	5000 ddd	x	x	mV	0x740e
0	32767 ddd	x	x	mA	0x3200
0	5000 ddd	x	x	mV	0xc800
0	255 ddd	x	x	s	0x02
0	500 ddd	x	x	mA	0xf401
0	255 ddd	x	x	s	0x05
-500	0 ddd	x	x	mA	0x0cfe
0	255 ddd	x	x	s	0x05
0	255 ddd	x	x	mA	0xc800
0	255 ddd	x	x	s	0x05
0	255 ddd	x	x	-	0x64
0	255 ddd	x	x	s	0x02
0	255 ddd	x	x	s	0x05
0	255 ddd	x	x	-	0x64
0	255 ddd	x	x	s	0x05
0	255 ddd	x	x	s	0x05
0	32767 ddd	x	x	mV	0x8813
0	255 ddd	x	x	s	0x05
-128	127 ddd	x	x	掬C	0xf6
-128	127 ddd	x	x	掬C	0x00

-128	127 ddd	x	x	掳C	0x0a
-128	127 ddd	x	x	掳C	0x19
-128	127 ddd	x	x	掳C	0x28
-128	127 ddd	x	x	掳C	0x37
0	127 ddd	x	x	掳C	0x01
0	32767 ddd	x	x	mV	0x6810
0	32767 ddd	x	x	mA	0xb80b
0	32767 ddd	x	x	mA	0xb80b
0	32767 ddd	x	x	mA	0xb80b
0	32767 ddd	x	x	mV	0x6810
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mV	0x6810
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mV	0x6810
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mA	0x7017
0	32767 ddd	x	x	mA	0x3200
0	32767 ddd	x	x	mA	0x0a00
0	32767 ddd	x	x	mV	0xe803
0	32767 ddd	x	x	mV	0xb80b
0	32767 ddd	x	x	mV	0xa60e
0	32767 ddd	x	x	mV	0xa00f
0	255 ddd	x	x	mV	0x00
0	100 ddd	x	x	%	0x32
0	100 ddd	x	x	%	0x4b
0	100 ddd	x	x	%	0x01
0	32767 ddd	x	x	mA	0x5802
0	32767 ddd	x	x	mV	0x6400
1	255 ddd	x	x	steps	0x01
1	255 ddd	x	x	steps	0x01
0	32767 ddd	x	x	mA	0xc00d
0	32767 ddd	x	x	mV	0x6810
0	5000 ddd	x	x	mV	0x3c0f
0	5000 ddd	x	x	mV	0x6400
0	255 ddd	x	x	mV	0x05
0	255 ddd	x	x	s	0x14
-32768	32767 ddd	x	x	mA	0x6400
-32768	32767 ddd	x	x	mA	0x3200
0	32767 ddd	x	x	mA	0x2800
0	255 ddd	x	x	s	0x01
0	255 ddd	x	x	s	0x3c
0	32767 ddd	x	x	mAh	0x5c2b
0	32767 ddd	x	x	cWh	0x803e
0	32767 ddd	x	x	mV	0x4038
0	100 ddd	x	x	%	0x50
0	5000 ddd	x	x	mV	0xb80b
0	5000 ddd	x	x	mV	0x1c0c
0	100 ddd	x	x	%	0x00
0	100 ddd	x	x	%	0x05

0	5000 ddd	x	x	mV	0x6810
0	5000 ddd	x	x	mV	0x0410
0	100 ddd	x	x	%	0x64
0	100 ddd	x	x	%	0x5f
0	5000 ddd	x	x	mV	0x800c
0	5000 ddd	x	x	mV	0xe40c
0	100 ddd	x	x	%	0x06
0	100 ddd	x	x	%	0x08
0	5000 ddd	x	x	mV	0x6810
0	5000 ddd	x	x	mV	0x0410
0	100 ddd	x	x	%	0x64
0	100 ddd	x	x	%	0x5f
0	65535 ddd	x	x	—	0x0100
0	32767 ddd	x	x	mAh	0x5c2b
0	65535 ddd	x	x	—	0x9f0e
0	65535 ddd	x	x	—	0x9500
0	65535 ddd	x	x	—	0x6303
0	65535 ddd	x	x	—	0xbe0f
0	65535 ddd	x	x	—	0x3c01
0	255 ddd	x	x	—	0x09
0	255 ddd	x	x	—	0x00
0	255 ddd	x	x	—	0x00
0	32767 ddd	x	x	—	0x800c
1	255 ddd	x	x	s	0x01
0	32767 ddd	x	x	—	0x800c
1	255 ddd	x	x	s	0x01
0	32767 ddd	x	x	—	0x800c
1	255 ddd	x	x	s	0x01
0	65535 d. dd	x	x	0. 01%	0x0000
0	32767 ddd	x	x	mV	0x0a00
0	255 ddd	x	x	0. 1掬C	0x77
0	32767 ddd	x	x	mA	0xb036
0	255 ddd	x	x	0. 01%/day	0x04
0	255 ddd	x	x	3uA	0x2c00
0	32767 ddd	x	x	mAh	0x1400
0	32767 ddd	x	x	mAh	0x0000
0	100 ddd	x	x	%	0x64
0	100 ddd	x	x	%	0x64
-32768	32767 ddd	x	x	mV	0x1810
-32768	32767 ddd	x	x	mV	0xc80f
-32768	32767 ddd	x	x	mV	0x4d0f
-32768	32767 ddd	x	x	mV	0xf40e
-32768	32767 ddd	x	x	mV	0x930e
-32768	32767 ddd	x	x	mV	0x430e
-32768	32767 ddd	x	x	mV	0x180e
-32768	32767 ddd	x	x	mV	0xea0d
-32768	32767 ddd	x	x	mV	0x9d0d
-32768	32767 ddd	x	x	mV	0x2f0d
-32768	32767 ddd	x	x	mV	0xd00c
0	4300 ddd	x	x	mV	0x740e
0	4200 ddd	x	x	mV	0x6400
0	65535 ddd	x	x	mA	0xe803
0	10 dd. d	x	x	0. 10%	0x02
0	255 ddd	x	x	s	0x3c

0	32767	ddd	x	x		mV	0xac0d
0	32767	ddd	x	x		mV	0x410a
0	255	ddd	x	x		s	0x0a
0	32767	ddd	x	x		mV	0x410a
0	255	ddd	x	x		s	0x0a
0	32767	ddd	x	x		mV	0x141e
0	32767	ddd	x	x		mA	0x2800
0	255	ddd	x	x		s	0x05
0	255	ddd	x	x		s	0x14
0	255	ddd	x	x		s	0x14
0 0xff	hh		x	x	RSVD RSVD RSVD RSVD	hex	0x00
0	127	ddd	x	x		s	0x03
0	254	ddd	x	x		s	0x06
0	65535	ddd	x	x		min	0xc0a8
0	65535	ddd	x	x		min	0xc0a8
0	255	ddd	x	x		s	0x3c
0 0xff	hh		x	x	AOLDL AOLD OCD2 OC	hex	0x00
0 0xff	hh		x	x	AOLDL AOLD OCD2 OC	hex	0x00
0 0xff	hh		x	x	RSVD RSVD OTD OTC	hex	0x00
0 0xff	hh		x	x	RSVD RSVD OTD OTC	hex	0x00
0 0xff	hh		x	x	CHGC OC CTOS RSVD	hex	0x00
0 0xff	hh		x	x	CHGC OC RSVD CTO	F hex	0x00
0 0xff	hh		x	x	RSVD RSVD RSVD RSVD	hex	0x00
0 0xff	hh		x	x	RSVD RSVD RSVD RSVD	hex	0x00
0 0xff	hh		x	x	RSVD SOTF RSVD SOT	hex	0x00
0 0xff	hh		x	x	RSVD SOTF RSVD SOT	hex	0x00
0 0xff	hh		x	x	RSVD RSVD RSVD VIM	hex	0x00
0 0xff	hh		x	x	RSVD RSVD RSVD VIM	hex	0x00
0 0xff	hh		x	x	RSVD 2LVL AFEC AFE	F hex	0x00
0 0xff	hh		x	x	PTC 2LVL AFEC AFE	F hex	0x00
0 0xff	hh		x	x	TS4 TS3 TS2 TS1 RS	hex	0x00
0 0xff	hh		x	x	TS4 TS3 TS2 TS1 RS	hex	0x00
0 0xffff	hhhh		x	x		hex	0x0000
0 0xffff	hhhh		x	x	SLEEP XCGH XDSD PF	hex	0x0000
0 0xffff	hhhh		x	x	RSVD RSVD EMSHUT C	hex	0x0000
0 0xff	hh		x	x	RSVD OT HT STH RT	hex	0x00
0 0xff	hh		x	x	VCT MCHG SU IN HV	hex	0x00
0 0xff	hh		x	x	RSVD RSVD RSVD RSVD	hex	0x00
0 0xff	hh		x	x	CF DSG EDV0 BAL_EN	hex	0x00
0 0xff	hh		x	x	VDQ EDV2 EDV1 RSVD	hex	0x00
-32768	32767	ddd	x	x		mV	0x0000
-32768	32767	ddd	x	x		mV	0x0000
-32768	32767	ddd	x	x		mV	0x0000
-32768	32767	ddd	x	x		mV	0x0000
-32768	32767	ddd	x	x		mV	0x0000
-32768	32767	ddd	x	x		mV	0x0000
-32768	32767	ddd	x	x		mA	0x0000
-32768	32767	dd. d	(x-2732)	(x+2732)		0.1degK	0x0000
-32768	32767	dd. d	(x-2732)	(x+2732)		0.1degK	0x0000
-32768	32767	dd. d	(x-2732)	(x+2732)		0.1degK	0x0000
-32768	32767	dd. d	(x-2732)	(x+2732)		0.1degK	0x0000
-32768	32767	dd. d	(x-2732)	(x+2732)		0.1degK	0x0000
0 0xff	hh		x	x		hex	0x00
0 0xff	hh		x	x		hex	0x00

0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
0 0xff	hh	x	x	hex	0x00
1	32 ddd	x	x	-	0x20
0 0xff	hh	x	x	Hex	0x61
0 0xff	hh	x	x	Hex	0x62
0 0xff	hh	x	x	Hex	0x63
0 0xff	hh	x	x	Hex	0x64
0 0xff	hh	x	x	Hex	0x65
0 0xff	hh	x	x	Hex	0x66
0 0xff	hh	x	x	Hex	0x67
0 0xff	hh	x	x	Hex	0x68
0 0xff	hh	x	x	Hex	0x69
0 0xff	hh	x	x	Hex	0x6a
0 0xff	hh	x	x	Hex	0x6b
0 0xff	hh	x	x	Hex	0x6c
0 0xff	hh	x	x	Hex	0x6d
0 0xff	hh	x	x	Hex	0x6e
0 0xff	hh	x	x	Hex	0x6f
0 0xff	hh	x	x	Hex	0x70
0 0xff	hh	x	x	Hex	0x71
0 0xff	hh	x	x	Hex	0x72
0 0xff	hh	x	x	Hex	0x73
0 0xff	hh	x	x	Hex	0x74
0 0xff	hh	x	x	Hex	0x75
0 0xff	hh	x	x	Hex	0x76
0 0xff	hh	x	x	Hex	0x77
0 0xff	hh	x	x	Hex	0x7a
0 0xff	hh	x	x	Hex	0x78
0 0xff	hh	x	x	Hex	0x79
0 0xff	hh	x	x	Hex	0x30
0 0xff	hh	x	x	Hex	0x31
0 0xff	hh	x	x	Hex	0x32
0 0xff	hh	x	x	Hex	0x33
0 0xff	hh	x	x	Hex	0x34
0 0xff	hh	x	x	Hex	0x35
0 0xff	hh	x	x	Hex	0x01
0 0xff	hh	x	x	Hex	0x23

	0 0xff	hh	x	x	Hex	0x45
	0 0xff	hh	x	x	Hex	0x67
	0 0x7fff	hhhh	x	x	hex	0x0000
	0 0x7fff	hhhh	x	x	hex	0x986c
	0 0x7fff	hhhh	x	x	hex	0x0000
	0 32767	ddd	x	x	mAh	0x2c01
	0 32767	ddd	x	x	cWh	0xb001
	0 65535	ddd	x	x	min	0x0a00
	0 0xffff	hhhh	x	x	CAPM CHGM AM RSVD hex	0x8100
	0 0xffff	hhhh	x	x	hex	0x3100
	0 65535	z	x	x	date	0x8c4c
	0 0xffff	hhhh	x	x	hex	0x0000
x	x	s	x	x	—	0x09536f6
x	x	s	x	x	—	0x0850422
x	x	s	x	x	—	0x044c494
	32 65535	ddd	x	x	488us	0x0002
	32 65535	ddd	x	x	488us	0x0004
	16 65535	ddd	x	x	488us	0x6400
	1 63	dddd	x/4	x*4	0. 25s	0x10
	0 100	ddd	x	x	%	0x0a
	0 100	ddd	x	x	%	0x00
	0 100	ddd	x	x	%	0x14
	0 100	ddd	x	x	%	0x28
	0 100	ddd	x	x	%	0x3c
	0 100	ddd	x	x	%	0x50
	0 100	ddd	x	x	%	0x0a
	0 100	ddd	x	x	%	0x00
	0 100	ddd	x	x	%	0x14
	0 100	ddd	x	x	%	0x28
	0 100	ddd	x	x	%	0x3c
	0 100	ddd	x	x	%	0x50
	0 0xff	hh	x	x	AOLDL AOLD OCD2 OChex	0x00
	0 0xff	hh	x	x	RSVD CUVC OTD OTC hex	0x00
	0 0xff	hh	x	x	CHGC OC RSVD CTO Fhex	0x00
	0 0xff	hh	x	x	RSVD RSVD RSVD RSVhex	0x00
	0 255	ddd	x	x	s	0x00
	0 0xff	hh	x	x	AOLDL AOLD OCD2 OChex	0x00
	0 0xff	hh	x	x	RSVD CUVC OTD OTC hex	0x00
	0 0xff	hh	x	x	CHGC OC RSVD CTO Fhex	0x00
	0 0xff	hh	x	x	RSVD RSVD RSVD RSVhex	0x00
	0 255	ddd	x	x	s	0x00
	0 0xff	hh	x	x	AOLDL AOLD OCD2 OChex	0x00
	0 0xff	hh	x	x	RSVD CUVC OTD OTC hex	0x00
	0 0xff	hh	x	x	CHGC OC RSVD CTO Fhex	0x00
	0 0xff	hh	x	x	RSVD RSVD RSVD RSVhex	0x00
	0 255	ddd	x	x	s	0x00
	0 0xff	hh	x	x	RSVD SOTF RSVD SOThex	0x00
	0 0xff	hh	x	x	RSVD RSVD RSVD VIMhex	0x00
	0 0xff	hh	x	x	PTC 2LVL AFEC AFEFhex	0x00
	0 0xff	hh	x	x	TS4 TS3 TS2 TS1 RShex	0x00
	0 255	ddd	x	x	s	0x00
	0 0xff	hh	x	x	RSVD SOTF RSVD SOThex	0x00
	0 0xff	hh	x	x	RSVD RSVD RSVD VIMhex	0x00
	0 0xff	hh	x	x	PTC 2LVL AFEC AFEFhex	0x00

[illegible]

[illegible]

ish Raw Value

.0
.9


```
ie79436f72702e000000000000000000000000  
d523136305300000000000000000000000000  
.f4e
```