

## LIST OF TABLE

Table II. 1 Failure Mode and Effect Analysis Worksheet .....	7
Table II. 2 Differences between DFMEA and PFMEA .....	10
Table II. 3 Differences between DFMEA and PFMEA (Continue).....	11
Table II. 4 RPN factor table .....	13
Table II. 5 Severity Rating Table.....	14
Table II. 6 Severity Rating Table (Continue) .....	15
Table II. 7 Severity Rating Table (Continue) .....	16
Table II. 8 Occurance Rating Table .....	17
Table II. 9 Detection Rating Table.....	18
Table II. 10 Related Reseach Table .....	19
Table II. 11 Related Research table (continue).....	19
Table II. 12 Related Research table (continue).....	20
Table II. 13 Related Research table (continue).....	20
Table II. 14 Related Research table (continue).....	21
Table II. 15 Related Research table (continue).....	21
Table II. 16 Related Research table (continue).....	22
Table IV. 1 Electrical Component .....	31
Table IV. 2 Li-Ion battery specification.....	32
Table IV. 3 Li-Ion battery type .....	33
Table IV. 4 Battery Comparation.....	34
Table IV. 5 Pin part specification .....	36

Table IV. 6 Pin part stress test .....	37
Table IV. 7 Pin part displacement test.....	38
Table IV. 8 Pin part Strain test.....	38
Table IV. 9 Pin part strain test (continue).....	39
Table IV. 10 Top part specification .....	39
Table IV. 11 Top part specification (continue).....	40
Table IV. 12 Top part stress test .....	40
Table IV. 13 Top part stress test (Continue).....	41
Table IV. 14 Top part displacement test .....	41
Table IV. 15 Top part displacement test (continue).....	42
Table IV. 16 Top part strain test .....	42
Table IV. 17 Bottom part load detail .....	43
Table IV. 18 bottom part thermal test .....	43
Table IV. 19 Bottom part thermal test (continue).....	44
Table IV. 20 Bottom part specifiacion.....	45
Table IV. 21 Bottom part stress test.....	46
Table IV. 22 Bottom part displacement test .....	47
Table IV. 23 Bottom part strain test.....	47
Table IV. 24 RPN Table calculation.....	49
Table V. 1 DFMEA Implementation .....	51
Table V. 2 DFMEA implementation (Continue) .....	52