 GETWELL TECH.(H.K.) LTD.	2.0 Pitch 6 Pin Battery Connector Product Specification		PART No: DC-0060S00-051-102		Rev.: A	Page: 1/ 5
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			ZHANGWEI		2004-12-20	
<p>1.0 Scope : This specification covers the requirements for product performance and test methods of GETWELL's Battery (Plug) Connectors of the part numbers specified as bellow. Product shall be of the design, construction and physical dimensions specified in the applicable product drawing.</p> <p>2.0 Rating :</p> <p>2.1 Voltage Rating : 50 V DC (REF)</p> <p>2.2 Rated current : 0.5 AMPS (REF)</p> <p>2.3 Temperature Range: -40? to +85? storage; -25? to +75? operating</p> <p>3.0 Test Condition:</p> <p>All tests shall be performed as bellow conditions unless otherwise specified.</p> <p>3.1 Temperature range : +15? to +35?</p> <p>3.2 Humidity range: 25% to 85%</p> <p>3.3 Atmospheric Pressure : 86kPa to 106 Kpa (860 to 1060 mber)</p> <p>4.0 Test Methods and Requirements:</p> <p>4.1 Examination of product:</p>						
Item	Test Description	Test Methods		Requirement		
4.1.1	Examination of product (Outward Appearance Structure)	<b>EIA 364-18</b> Shall be confirmed with eyes in accordance with each drawing. Shall be confirmed by using proper measuring instruments.		1).Outward appearance shall be good without such injurious problem 2).Structure shall be meet the design and dimensional requirements of drawing.		



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4.2 Electrical Performance:

Item	Test Description	Test Methods	Requirement
4.2.1	Low Level Contact Resistance	<b>EIA 364-23A</b> (or MIL-STD-1344A, Method 3002.1, Test Condition B) Subject mated contacts assembled in housing to 20mV maximum open circuit at 100 mA maximum Measured from battery pack side to main PCB side.	50 mOhms maximum
4.2.2	Insulation Resistance	<b>EIA 364-21B</b> (or MIL-STD-202F, Method 302, Test Condition B) Unmated connector with 100 VDC between adjacent contacts for 1 minute	100 MOHms minimum
4.2.3	Dielectric Withstanding Voltage	<b>EIA 364-20</b> (or MIL-STD-202F, Method 301, Test Condition B) Test between adjacent contacts of mated and unmated connector assemblies.	500 V AC for one minute at sea level 1).No flashover or insulation breakdown 2).Leakage current: 0.5mA Maximum.

4.3 MECHANICAL PERFORMANCE

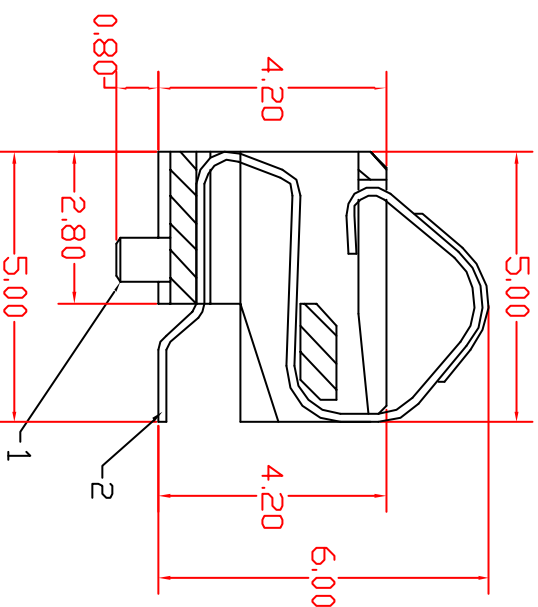
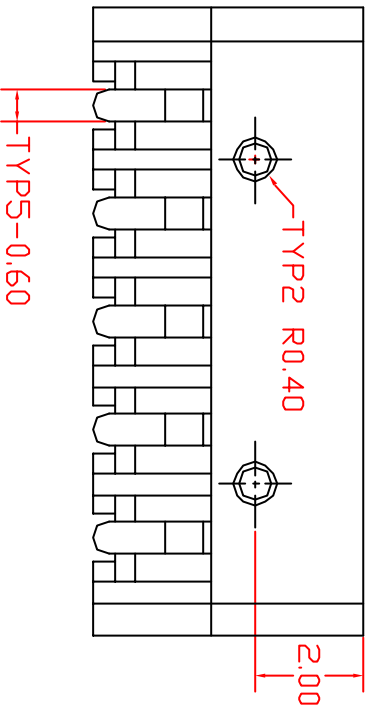
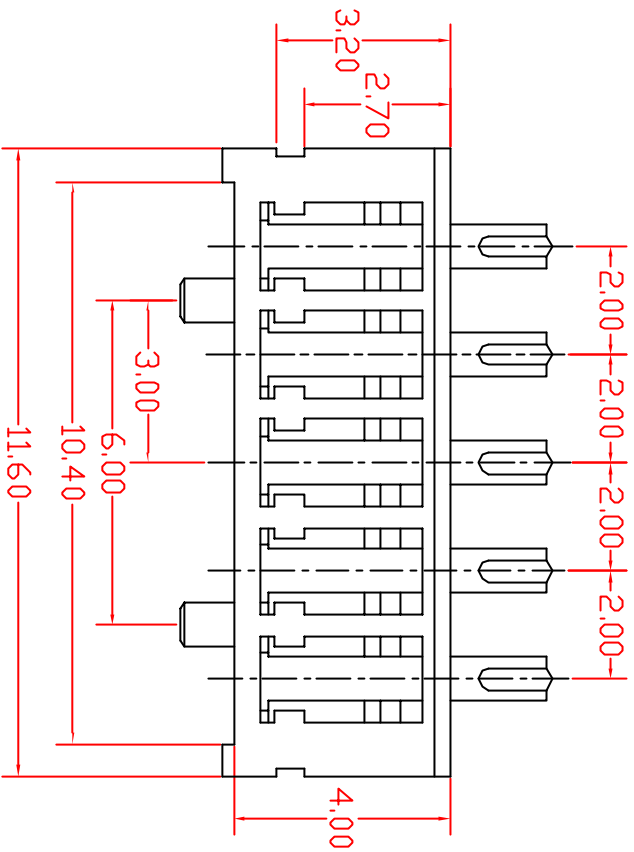
4.3.1	Durability: Battery side contacts	<b>EIA 364-09B</b> Mate contacts at a rate of 10 cycles/minute to 5000 cycles 1 cycle insertion and withdrawal of battery pack.	Contact resistance after 5000 cycles 100mOhms max. Appearance: No damage
4.3.2	Durability: PCB side contacts	Mate contacts at a rate of 10 cycles/minute to 50 cycles. 1 cycle insertion and withdrawal of main PCB.	Contact resistance after 50 cycles 100mOhms max. Appearance: No damage
4.3.3	Normal Force: Battery side contacts	Measure normal force at contact point Deflection 1.66mm	2.5~10N
4.3.4	Normal Force: PCB side contacts	Measure normal force at contact point Deflection 0.85mm	2.5~10N

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Item	Test Description	Test Methods		Requirement			
4.3.5	Random Vibration	<b>EIA 364-28B Test Condition V Test Letter A</b> , (or MIL-STD-202F, Method 214, Test Condition 1, Test Letter A) 5.35G's rms @ 50-2000Hz random traversed in 15 minutes for 5 cycles.		<1us discontinuity			
4.3.6	Contact Retention Force	<b>EIA 364-35</b> Shall be measured with TENSION GAUGE or TENSION TESTER in same direction.		1).Initial : 500 grams Min. 2).After test: 500 grams Min.			
4.3.7	Physical Shock	<b>EIA 364-27 Test Condition H</b> (or MIL-STD-202F, Method 214B) 50 G's Half-sine shock pulse for 3 shocks each X, Y, Z axes, total 18 shocks.		<1us discontinuity			
4.4 ENVIRONMENTAL PERFORMANCE							
4.4.1	Thermal Shock	<b>EIA 364-32B, Test Condition I</b> , (or MIL-202F, Method 107G Condition A.) -40? for 30 minutes, +85? for 30 minutes Changeover<1 minutes. 1 hrs recovery time, 24 cycles The last cycle is to be finished at hot temperature.		Appearance: No damage. Contact resistance: 100mOhms Maximum.			
4.4.5	Humidity	+50? @95% Humidity for 168 hours.		Appearance: No damage. Contact resistance: 100mOhms Maximum.			

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5.0 Test Sequence:													
Test Group (a)				Sample Groups									
Test Item	Test Description	A	B	C	D	E	F	G	H	I	J	K	L
4.1.1	Examination of product	1.10	1.4	1.10	1								
4.2.1	Contact Resistance	2.7	2.3	2.7									
4.2.2	Insulation Resistance			3.8									
4.2.3	Dielectric Withstanding Voltage			4.9									
4.3.1	Durability (battery side)	5											
4.3.2	Durability (PCB side)	6											
4.3.3	Normal Force: battery side cont.	3.8											
4.3.4	Normal Force: PCB side cont.	4.9											
4.3.6	Contact Retention Force				2								
4.4.2	Humidity Note: a. Samples shall be prepare in accordance with applicable manufacture's instructions and shall be selected at random from current production. b. The numbers in the table indicate sequence in which tests are performed. c. Precondition samples with 10 cycles durability. d. All the tests shall be performed in the sequence, indicated by the number in the columns.  Each test groups shall consist of minimum of eight connectors. A minimum of 30 contacts shall be selected and identified. Unless otherwise specified, these contacts shall be used for all measurements.	5	5	5	5								



ASSY
  Part
  Tooling
  Fixturing/ jig



CUSTOMER REV	GETWELL REV	DESCRIPTION	DATE	NAME	ECN NO
	A	NEW	2003.04.04	LILING	
	B	新圖框	2004.12.06	ZHANGWEI	

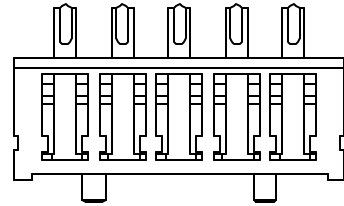
NO.	PART NAME	PART NO	QTY	MATERIAL	FINISH	REMARK
2	TERMINAL	TL_DC06_A	5	CI720R_H	Au PLATED	
1	HOUSING	HS_DC06	1	PA66+30%GF	BACK	

<b>Getwell Tech. (H.K.) Co., Ltd</b>		MODEL	DC-0060SD0-051-102	TITLE	LINKER
DWG NO		CUSTOMER NO		DRAWN BY	ZHANGWEI
UNIT	mm	THIRD ANGLE PROJECTION	ANGLE: ABOVE:0-1	±2°	±0.05
SCALE	8:1		ABOVE:1-10	±0.1	
SHEET	OF 1		ABOVE:10-*	±0.2	
				CHECK BY	
				APPV. BY	

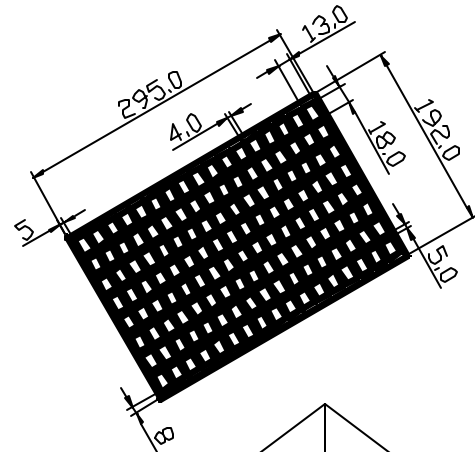
## SPECIFICATIONS

Model Type :	5 Pin battery connector
Series No:	DC-0060S00-051-102
Model No:	
Customer ref:	

- 1.136pcs/PVC吸塑
- 2.2560PCS/箱
- 3.箱子尺寸:315x195x115MM



Getwell Tech. (H.K.) Co., Ltd	
型号:	_____
物料号:	_____
数量:	_____
日期:	_____



Notes:  
 Carton box:thickness=6mm  
 Unit=mm

