

Downloadable Dynamometer Database (D3)- Test Summary Sheet

ility

2012 Mitsubishi I-MiEV Vehicle Architecture Electric Document Date 5/29/2014 Revision Number 1 Notes:

Vehicle Setup Information

Test Cell Location	APRF- Bldg 371							
Vehicle Dynamometer Input								
Test weight [lb]	2875							
Target A [lb]	21.30							
Target B [lb/mph]	0.59605							
Target C [lb/mph^2]	0.012871							
Test Fuel Information								
Fuel type	Electricity							
Fuel density [g/ml]	-							
Fuel Net HV [BTU/lbm]	-							

	The second second																
⁷ 897 10 1841		000	Date CSI) Hot start	Light. Lost		Test Co.	Lehicle Cooling	Solar, Solar, Solar, Solar,	Veicle Minzy Sum	Hood Controls	Window Ostion (Lo) or [C,	Chole D. Ichosa	Cycle E Tring WorlDowny	Cycle Hy,	Chole HV by Medialed	Cycle Hy Alegas Coro	Colo HV battery Net Energy (DC)
T 1	Test information	J. T C.		rest	cell inforn	nation	Test cel	setup	Ve	ehicle se	tup			Ele	ctric energ	gy consum	iption
61402053 61402054 61402055 61402056	unce purpose: AVTE Standar UDDS #1 HWY #1 UDDS #2 US06 #1	CS HS HS	02/20/14 02/20/14 02/20/14 02/20/14	-7 -7 -8 -7	17.1 16.3 18.5 15.3	28.9 28.9 28.9 28.9	SM SM SM SM	0 0 0	72 72 72 72 72	Closed Closed Closed Closed	Closed Closed Closed Closed	7.44 10.25 7.48 8.02	- - -	4.470 6.884 4.420 7.878	347.3 335.5 334.2 317.0	2806.70 3001.50 2655.10 3003.87	377.11 292.90 354.85 374.55
61402057	US06 #2	HS	02/20/14	-7	19.6	28.9	SM	0	72	Closed	Closed	5.46	-	5.456	294.9	1703.66	311.89
Full charge tes	st summary										Totals	38.65		29.1		13171	
Re-charging in	formation			-7	Ambient te	emperature	during charg	e [C]		Ch	arger integ	rated curre	nt [AC Ah]	71.57			
Level:	2												Charger in	tegrated pov	ver [AC Wh]	17083	
61402034	UDDS #1	CS	02/18/14	22	41.5	29.2	SM	0	OFF	Closed	Down	7.45	-	3.644	357.9	1289.36	173.09
61402035	HWY #1	HS	02/18/14	21	32.9	29.2	SM	0	OFF	Closed	Down	10.25	-	5.807	353.0	2030.08	198.12
61402036	UDDS #2	HS	02/18/14	22	48.0	29.2	SM	0	OFF	Closed	Down	7.44	-	3.586	351.0	1243.65	167.10
61402037	US06 #1	HS	02/18/14	21	33.1	29.2	SM	0	OFF	Closed	Down	8.03	-	6.647	342.5	2232.59	278.17
61402038	US06 #2	HS	02/18/14	23	35.3	29.2	SM	0	OFF	Closed	Down	8.02	-	6.714	332.9	2219.84	276.79
61402039	UDDS #3	HS	02/18/14	23	46.1	29.2	SM	0	OFF	Closed	Down	7.49	-	3.750	337.2	1249.73	166.83
61402040	HWY #2	HS	02/18/14	21	33.5	29.2	SM	1	OFF	Closed	Down	10.26	-	6.158	329.1	2009.05	195.75
61402041	UDDS #4	HS	02/18/14	22	44.8	29.1	SM	2	OFF	Closed	Down	7.49	-	3.929	320.5	1244.21	166.16
61402042	Steady State Deplete	HS	02/18/14	21	0.0	0.0	SM	3	OFF	Closed	Down	2.06	-	1.630	251.1	502.90	243.89
Full charge tes	st summary										Totals	68.49		41.9		14021	
Re-charging in				23	23 Ambient temperature during charge [C]					Ch	arger integ			72.04			
Level:		_											Charger in	tegrated pov			
61402028	Steady State Speed- 0% Grade	HS	02/17/14	24	38.5	29.0	SM	4	OFF	Closed	Down	6.22	-	4.079	351.7	1407.18	226.17
61402030	Passing Manuevers- 0% Grade	HS	02/17/14	25	42.0	29.0	SM	5	OFF	Closed	Down	3.31	-	2.613	337.7	852.89	257.94
61402032	WOTs	HS	02/17/14	25	40.5	29.0	SM	6	OFF	Closed	Down	4.26	-	4.918	327.5	1539.81	361.52
61402045	UDDS #1	CS	02/19/14	36	39.5	29.2	SM	850	72	Closed	Closed	7.46	-	3.402	357.8	1600.17	214.63
61402046	HWY #1	HS	02/19/14	35	29.6	29.2	SM	850	72	Closed	Closed	10.26	-	5.541	352.9	2121.65	206.88
61402047	UDDS #2	HS	02/19/14	34	49.6	29.2	SM	850	72	Closed	Closed	7.47	-	3.433	349.1	1415.55	189.42
61402048	US06 #1	HS	02/19/14	36	29.6	29.2	SM	850	72	Closed	Closed	8.01	-	6.420	338.2	2282.29	284.94
61402049	US06 #2	HS	02/19/14	34	35.1	29.2	SM	850	72	Closed	Closed	8.00	-	6.472	331.4	2260.91	282.54
61402050	SC03 #2	HS	02/19/14	35	42.9	29.2	SM	850	72	Closed	Closed	3.59	-	1.862	332.4	749.66	208.87
61402051	HWY #2	HS	02/19/14	34	31.3	29.2	SM	850	72	Closed	Closed	10.26	-	6.005	323.2	2031.81	198.01
61402052	UDDS #4	HS	02/19/14	34	46.3	29.2	SM	850	72	Closed	Closed	3.74 62.38	-	2.167	285.2	669.52	179.13
Full charge test summary Re-charging information 35 to -7 Ambient temperature during charge [C]								C!			nt [AC Ab]	37.2		13755			
				33 10 -7	Ambient te	emperature	during charg	e [C]		Cr	arger integ			70.92	vor [AC M/L]	16047	
Level:	۷												Charger in	tegrated pov	ver [AC Wh]	16847	1

Summary notes

For 95F (35C) testing, only the second (prepped) SC03 phase test results are presented in this summary, though the first SC03 is included for the full charge tests total. Testing was conducted using a modified SAE J1634 Multi Cycle Test Methodology.

- Electric energy consumption:

 HV battery Integrated net current --> Integrated current as reported by power analyzer
 - HV battery Average Zero crossing Voltage --> Calculated Average Zero crossing Voltage over the phase or cycle
 - HV Net Energy --> Integrated power as reported by power analyzer.
- Note that HV Net Energy is not equal to the product of HV battery Integrated net current times Average Zero crossing Voltage.
- * Target Coefficients developed during AVTE coast down testing

Advanced Powertrain Research Facility Data referencing:

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