



TEST REPORT

Product Name:	CLASS 2 BATTERY CHARGER / POWER SUPPLY
Brand Name:	CZJUTAI
Model Number:	JT-DC120V0500-E
Prepared For:	Changzhou Jutai Electronic Co., Ltd
Address:	219 Huashan Middle Road, Xinbei District, changzhou 213031, Jiangsu, China
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Date of Receipt:	Feb. 12, 2025
Test Date:	Feb. 12, 2025 – Feb. 18, 2025
Date of Report:	Feb. 18, 2025
Report No.:	DL-250218003R

**CEC California Appliance Efficiency Regulations CEC-400-2017-002, item(w)
Battery Charger Systems.****Report Reference No.** DL-250218003R**Tested by**
(printed name + signature) Nick**Supervised by**
(printed name + signature) Ray Liang**Approved by**
(printed name + signature) Jade Yang**Date of issue** Feb. 18, 2025**Testing Laboratory Name** Shenzhen DL Testing Technology Co., Ltd.**Address** 101-201, Comprehensive Building, Tongzhou Electronics
Longgang Factory Area, No.1 Baolong Fifth Road, Baolong
Community, Baolong Street, Longgang District, Shenzhen, China**Testing location** Same as above.**Address** Same as above.**Applicant's name** Changzhou Jutai Electronic Co., Ltd**Address** 219 Huashan Middle Road, Xinbei District, changzhou 213031,
Jiangsu, China**Test specification:****Standard** ☒ CEC-140-2021-002 – California Energy Commission for
external power supplies
☒ 10 C.F.R. section 430.23(bb) (Appendix Z to Subpart B of part
430)— Uniform Test Method for Measuring the Energy
Consumption of External Power Supplies
☒ US EPA "Test Method for Calculating the Energy Efficiency of
Single-Voltage External AC-DC and AC-AC Power Supplies", dated
August 11, 2004**Test procedure** CEC**Non-standard test method** N/A**Test item description** CLASS 2 BATTERY CHARGER / POWER SUPPLY**Trade Mark** CZJUTAI**Manufacturer** Changzhou Jutai Electronic Co., Ltd**Address** 219 Huashan Middle Road, Xinbei District, changzhou 213031,
Jiangsu, China**Model/Type reference** JT-DC120V0500-E**Ratings** Input: 100-240Vac, 50-60Hz, 0.30A
Output: 12Vdc, 0.50A

**Particulars: test item vs. test requirements**

Type of plug/inlet	US Plug
Output Power(Po).....	6W
Output cord length.....	183cm

Possible test case verdicts:

— test case does not apply to the test object	N/A
— test object does meet the requirement	P (Pass)
— test object does not meet the requirement	F (Fail)

(1)Name and address of factory	Changzhou Jutai Electronic Co., Ltd 219 Huashan Middle Road, Xinbei District, changzhou 213031, Jiangsu, China
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General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the object tested.

"(see appended table)" refers to a table appended to the report.

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

Summary of testing:

The sample(s) tested complies with the requirements of U.S.DOE 10 CFR Part 430.32 (w) External power supplies Final Rule, published on Feb. 10, 2016 (Level VI).

Appendix Z to Subpart B of Part 430—Uniform Test Method for Measuring the Energy Consumption of External Power Supplies.

The no-load condition power consumption and the average active efficiency were established by a reliable, accurate and reproducible measurement procedure, which takes into account the generally recognized state of the art.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Measurements of power of 0.01W or greater was made with an uncertainty of less than or equal to 2% at the 95% confidence level.



Test specification					
Standard		CEC California Appliance Efficiency Regulations CEC-400-2017-002, item(w) Battery Charger Systems. U.S.DOE 10 CFR Part 430.32 (w) External power supplies Final Rule, published on Feb. 10, 2016 (Level VI)			
Description		The product meets all conditions of a single-voltage external AC to DC power supply			
Ambient Temperature		25°C			
Performance Requirements					
Mark	Nameplate Output Power (P _{no}) ²	No-Load Mode Power ³	Nameplate Output Power (P _{no})	Average Efficiency in Active Mode ⁴	Power Factor
VI	Single-Voltage				Not Applicable
	0 to ≤ 49 W	AC-DC: ≤ 0.100 AC-AC: ≤ 0.210	0 to ≤ 1 W	Basic Voltage: ≥ 0.5* P _{no} + 0.16 Low Voltage: ≥ 0.517 *P _{no} + 0.087	
			>1 to ≤ 49 W	Basic Voltage: ≥ 0.071* ln(P _{no}) - 0.0014*P _{no} + 0.67 Low Voltage: ≥ 0.0834 * ln(P _{no}) - 0.0014* P _{no} + 0.609	
	49 to ≤ 250 W	≤ 0.210	>49 to ≤ 250 W	Basic Voltage: ≥ 0.880 Low Voltage: ≥ 0.870	
	>250 W	≤ 0.500	>250 W	≥ 0.875	
	Multiple-Voltage				
	Any	≤ 0.300	0 to ≤ 1 W	≥ 0.497*P _{no} + 0.067	
			>1 to ≤ 49 W	≥ 0.075 *ln(P _{no}) + 0.561	
			>49 W	≥ 0.860	
Remark		1. P _{no} is the Nameplate Output Power of the unit under test. 2. A low-voltage model is an EPS with nameplate output voltage of less than 6 volts and nameplate output current greater than or equal to 550milliamperes. 3. A basic-voltage model is an EPS that is not a low-voltage model.			

Equipment list				
Measure Machine	Manufacturer	Model	Rating	Calibrate
Digital Power Meter	YOKOGAWA	WT210	600V, 20A	01-Nov.-2024 to 31-Oct.-2025
Electronic Loading	ITECH	IT8511A+	150V,30A,150W	01-Nov.-2024 to 31-Oct.-2025

**Sample1(output:12Vdc, 0.5A)**

Model No	JT-DC120V0500-E			Test specimen 1	
Test voltage/ Frequency	115Vac/ 60Hz				
Test Item	Measure at load condition				
	5 (full load)	4 (3/4 load)	3 (1/2 load)	2 (1/4 load)	1 (no load)
Percent of nameplate current	100%	75%	50%	25%	0%
Output current (A)	0.500	0.375	0.250	0.125	0
Output voltage (V)	14.50	14.56	14.62	14.62	14.81
Output power (W)	7.25	5.46	3.655	1.828	--
a.c. input voltage (V)	115.0	115.0	115.0	115.0	115.0
a.c. input voltage (mA)	82.16	60.97	40.02	20.22	0.51
a.c. input power (W)	9.16	6.89	4.56	2.32	0.05
Total harmonic distortion (THD)	0.7%	0.7%	0.7%	0.7%	0.7%
True power factor	0.9671	0.9781	0.9891	0.9985	0.9987
Power consumed by EUT (W)	1.910	1.430	0.905	0.493	0.05
Efficiency	79.15	79.25	80.15	78.77	--
Average efficiency	79.33				
Standard requirements	78.88				
Result	Pass				
EPS	VI				

Sample2(output:12Vdc, 0.5A)

Model No	JT-DC120V0500-E			Test specimen 1	
Test voltage/ Frequency	115Vac/ 60Hz				
Test Item	Measure at load condition				
	5 (full load)	4 (3/4 load)	3 (1/2 load)	2 (1/4 load)	1 (no load)
Percent of nameplate current	100%	75%	50%	25%	0%
Output current (A)	0.500	0.375	0.250	0.125	0
Output voltage (V)	14.48	14.55	14.63	14.63	14.78
Output power (W)	7.24	5.456	3.658	1.829	--
a.c. input voltage (V)	115.0	115.0	115.0	115.0	115.0
a.c. input voltage (mA)	82.95	61.32	40.43	20.32	0.52
a.c. input power (W)	9.17	6.85	4.59	2.32	0.06
Total harmonic distortion (THD)	0.7%	0.7%	0.7%	0.7%	0.7%
True power factor	0.9654	0.9767	0.9887	0.9981	0.9997
Power consumed by EUT (W)	1.930	1.394	0.933	0.491	0.06
Efficiency	78.95	79.65	79.68	78.83	--
Average efficiency	79.28				
Standard requirements	78.88				
Result	Pass				
EPS	VI				

**Sample3(output:12Vdc, 0.5A)**

Model No	JT-DC120V0500-E			Test specimen 1	
Test voltage/ Frequency	115Vac/ 60Hz				
Test Item	Measure at load condition				
	5 (full load)	4 (3/4 load)	3 (1/2 load)	2 (1/4 load)	1 (no load)
Percent of nameplate current	100%	75%	50%	25%	0%
Output current (A)	0.500	0.375	0.250	0.125	0
Output voltage (V)	14.59	14.65	14.71	14.71	14.82
Output power (W)	7.295	5.494	3.678	1.839	--
a.c. input voltage (V)	115.0	115.0	115.0	115.0	115.0
a.c. input voltage (mA)	82.56	61.09	40.37	20.19	0.51
a.c. input power (W)	9.24	6.91	4.60	2.33	0.06
Total harmonic distortion (THD)	0.7%	0.7%	0.7%	0.7%	0.7%
True power factor	0.9684	0.9791	0.9895	0.9983	0.9992
Power consumed by EUT (W)	1.945	1.416	0.922	0.491	0.06
Efficiency	78.95	79.50	79.95	78.92	--
Average efficiency	79.33				
Standard requirements	78.88				
Result	Pass				
EPS	VI				



Attachment No.1:

Photos:





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