	TEST REPOR	Γ		
California Energy Com	mission's Appliance	e Efficiency Regulations		
	AUC250609009ER	During 1 h		
Compiled by (print+ signature)	Bruce Lin	Brice 2n		
Approved by (print+ signature):	Robin Liu	Robin. Lin		
		Lab Supervisor		
Date of issue	2025-06-16			
Testing Laboratory	Shenzhen AOCE Electronic	Technology Service Co., Ltd		
Address	Room 202, 2nd Floor, No.12	th Building of Xinhe Tongfuyu Industrial		
	Park, Fuhai Street, Baoan D	istrict, Shenzhen, Guangdong, China		
Testing location/address	Same as above			
Applicant's name	Shenzhen Amazwear Technology Co.,Limited			
Address	.: 34th Floor, Changjiang Center, interchange of Renmin Road and			
	Jianshe Road, Jinglong Com	nmunity, Longhua Street, Longhua		
	District, Shenzhen, China.			
Manufacturer name	Shenzhen Amazwear Techn	ology Co.,Limited		
Address	34th Floor, Changjiang Center	er, interchange of Renmin Road and		
	Jianshe Road, Jinglong Community, Longhua Street, Longhua			
	District, Shenzhen, China.			
Test Object	Smart Watch			
Trade Mark	KOSPET			
Model / Type reference	TANK T3			
Rating (s)	DC5V, 1A			
Test specification:	[
Standard	CEC: California Code Of Reg	gulations, Title 20: Division 2, Chapter 4,		
	Article 4, Sections 1601- 16	09: Appliance Efficiency Regulations		
Test procedure	☑ 10 CFR Section 430.23 (a)	aa)		
	(Appendix Y to Subpart B of	Part 430) (As it appeared in the code of		
	Federal Regulations on June	20, 2016)		
	Small Battery Charger Sy	stems: 10 C.F.R. section 430.23(aa)		
	(Appendix Y to subpart B of	part 430) (Jan. 1, 2017)		
	Battery Backups and Nor	-Federally Regulated Uninterruptible		
	Power Supplies: 10 C.F.R. s	ection 430.23(aa) (Appendix Y to		
	subpart B of part 430) (Jan.	1, 2016)		
Non-standard test method	N/A			
Test Report Form No	TRF No. CEC			
Test Report Form(s) Originator:	AOCE			
Master TRF	2022-03-23			

Appliance (Equipment) Detail

Model Number	TANK T3
Brand	KOSPET
Regulatory Status	Federally-Regulated
Product Type	Smart Watch
Serial Number	N/A
Product Description (as appropriate)	N/A
Rated voltage(s)	5V
Frequency (frequencies)	
Number of charger ports	1
Location of marking or labeling	outside
Detail of manufacturer marked on the product (if any)	None
Compatible battery chemistries	Lithium Ion

Unit Configuration

Small battery charger (single)
⊠ USB Charger system
Multi-port Charger
Multi-voltage charger
Batch charger

For Battery information

Battery manufacture:	ZHONGSHAN ZHONGWANGDE NEW ENERGY TECHNOLOGY Co. , LTD
Model of battery:	ZWD552429V
Number of battery:	1
Rated Battery Voltage:	3.8V
Rated charge capacity of the test battery:	500mAh
Rated charge energy of the test battery:	1.9Wh

Possible test case verdicts

- Test object does meet the requirement:	P (Pass)
- Test case does not apply to the test object::	N/A (Not applicable)
- Test object does not meet the requirement::	F (Fail)

Testing:

Date of receipt of test item	2025-06-09
Data(s) of performance of tests	From 2025-06-09 to 2025-06-16

General product information

- 1. The EUT was charged by external DC source via Universal Serial Bus. We performed the test is that input reference source should be 5.0Vdc via Type-C port.
- 2. The weight of the product is 0.075kg.
- 3. Factory Name and Address: Same as the applicant.

General conditions for measurements

1. Test Room

The tests shall be carried out in a room that has an air speed close to the appliance under test of ≤ 0.5 m/s. The ambient temperature shall be maintained at (20 ± 5) °C throughout the test.

2. Power supply

Where this standard is referenced by an external standard or regulation that specifies a test voltage and frequency, the test voltage and frequency so defined shall be used for all tests. Where the test voltage and frequency are not defined by an external standard, the test voltage and the test frequency shall be the nominal voltage and the nominal frequency of the country for which the measurement is being determined ± 1 %.

3. Supply voltage waveform

The total harmonic content of the supply voltage when supplying the appliance under test in the specified mode shall not exceed 2 %; harmonic content is defined as the root-mean-square (r.m.s.) summation of the individual components using the fun Measured Charge Capacity damental as 100 %.

4. Power measurement accuracy

Precision measurement of energy consumption shall be made with a precision equal to the greater of 0.1 Watt-hour or 1% of full-scale measurement.

5. Testing Setup

Charge the battery with the UUT for the period specified by the UUT manufacturer as the time needed to fully charge the battery under test.

- 1) All limited time functions used to deliver the primary charge to the battery, including cell equalization, are to be excluded from the measurement of battery maintenance mode.
- 2) If these events are known to occur for a time period beyond the manufacturer specified charge time, the battery is to be left in place until all such functions are complete.
- 3) In cases where no charge time is specified, the batteries to be charged for a period of at least 24 hours.
- Note: The applicant and manufacturer information, product name, model, trademark and other information in this report are all provided by the applicant, and this laboratory is not responsible for verifying its authenticity.

General conditions for measurements

Test condition parameter	Requirements	Measured
Air speed close to the EUT	≤ 0.5 m/s	0.1 m/s
Ambient temperature	15-25°C	24.0°C
Relative Humidity	10-80%	57.0%
Test voltage	🗌 115 ±1% 🔀 others	5Vdc
Test frequency	☐ 60 Hz ±1%	-
Total harmonic content (up to and including the 13th harmonic)	≤ 2 %	
Voltage crest factor of the power meter under test	1.34-1.49	
Resolution of power meter	0.01 W (at least)	0.01W

Test instruments

Number	Model designation	Measurement	Calibration date	Next Calibration date
AOC-S-012	WT310	Digital Power Meter	2025/04/13	2025/04/12
AOC-S-062	RD-3010	DC source	2025/04/13	2025/04/12
AOC-S-161	CT-3008-15V3A-A	Battery charge tester	2025/04/13	2025/04/12
AOC-S-067	ZJ1-2B	Hygrograph	2025/04/15	2025/04/14
AOC-S-043	PC396	Stop Watch	2025/04/13	2025/04/12
AOC-S-135	AR866A	Anemometer	2025/04/15	2025/04/14

TEST DATA AND RESULT

Mea	sured Value									
Dete	Determination of represented values		Sam	ple 1	Sample	2	Represe value me	nted ean	Units	
24- (E ₂₄	hour charge and m = 24-hour energy)	naintenanc	e energy		1.85	1.80		1.82	5	Wh
Batt Mair	ery maintenance m ntenance mode pov	ode powe ver)	r (P _m =	0	0.015	0.015		0.015	5	W
No k pow	oattery mode power er)	r (P _{sb} = Sta	andby mode		0	0		0	0	
No b	pattery mode power	· (P _{off} = Of	^f mode power)							W
Battery capacity of tested battery (if more than 1 charger port report the total of all battery capacities connected during test) (E _{batt} = Measured battery energy)		,	1.03	0.99)	1.01		Wh		
t _{cd} =	Charge test duration	on			24	24				h
t _{a&m} , n, t _{sb} and t _{off}		ta&m n=0.5 tsb=5 toff=(1=7.82 54 5.29 0.00 Harger Usage	ta&m=7.82 n=0.54 tsb=5.29 toff=0.00						
<i>6</i> .										
2	Pro	duct class			Hours pe	er day***	C	Charges (n)	Thres	hold charge time*
No.	Description	Rated battery energy (Ebatt)**	Special characteristic or battery voltac	m	Active + aintenance (t _{a&m})	Standby (t _{sb})	Off (t _{off})	Number per day		Hours
1	Low-Energy	≤20 Wh	Inductive Connection****	Inductive Connection****		66 0.10	0.00	0.15		137.73
2	Low-Energy, Low- Voltage	<100 Wh	<4 V		7.8	82 5.29	0.00	0.54		14.48
3	Low-Energy, Medium- Voltage	<100 Wh	4-10 V		6.4	42 0.30	0.00	0.10		64.20
4	Low-Energy, High- Voltage	< <mark>100 Wh</mark>	> <mark>1</mark> 0 V		16.8	84 0.91	0.00	0.50		33.68
5	Medium-Energy, Low- Voltage	100-3000 Wh	<20 V		6.	52 1.16	0.00	0.11		59.27
6	Medium-Energy, High- Voltage	100-3000 Wh	≥20 V		17.1	15 6.85	0.00	0.34		50.44
7	High-Energy	>3000 Wh			8.	14 7.30	0.00	0.32		25.44

* If the duration of the charge test (minus 5 hours) as determined in section 3.3.2 of appendix Y to subpart B of this part exceeds the threshold charge time, use equation (ii) to calculate UEC otherwise use equation (i).

** Ebatt = Rated battery energy as determined in 10 CFR part 429.39(a).

*** If the total time does not sum to 24 hours per day, the remaining time is allocated to unplugged time, which means there is 0 power consumption and no changes to the UEC calculation needed. **** Inductive connection and designed for use in a wet environment (e.g. electric toothbrushes).

Standards for Small Battery Charger Systems

Performance Parameter	Requirements		Measured	Verdict	
Maximum 24 hour charge and maintenance energy (Wh) $(E_b = capacity of all$ batteries in ports and N = number of charger ports)	For E_b of 2.5 Wh or less: 16 x N			N.A	
	For E_b greater than 2.5 Wh and less than or equal to 100 Wh: 12 x N +1.6E _b			N.A	
	For E _b greater than 100 Wh and less than or equal to 1000 Wh: 22 x N+1.5E _b			N.A	
	For E₀ greater than 1000 Wh: 36.4 x N +1.486E₀			N.A	
Maintenance Mode Power and No Battery Mode Power (W) (Eb = capacity of all batteries in ports and N = number of charger ports)	The sum of maintenance mode power and no battery mode power must be less than or equal to: 1x N+0.0021xE _b Watts			N.A	
Note: measured Eb of battery is Wh, Number of charger port is one.					

Standards for Small Battery Charger Systems			Sample 2 (second sample)	
Performance Parameter	Requirements		Measured	Verdict
Maximum 24 hour charge and	For E_b of 2.5 Wh or less: 16 x N			N.A
maintenance energy (Wh) $(E_b = capacity of all$	For E_b greater than 2.5 Wh and less than or equal to 100 Wh: 12 x N +1.6E _b			N.A
and N = number of charger ports)	For E _b greater than 100 Wh and less than or equal to 1000 Wh: 22 x N+1.5E _b			N.A
	For E₀ greater than 1000 Wh: 36.4 x N +1.486E₀			N.A
Maintenance Mode Power and No Battery Mode Power (W) (Eb = capacity of all batteries in ports and N = number of charger ports)	The sum of maintenance mode power and no battery mode power must be less than or equal to: 1x N+0.0021xE _b Watts			N.A
Note: measured Eb	of battery is Wh, Number of	charger port is one.		

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Inductive Charger Syster			
Mode	Requirement	Measured value	Verdict
Maintenance mode power	1W		N.A
No battery mode	1W		N.A
Average power consumption during of the charge and maintenance mode test	1W		N.A

Battery Backup and Unin products manufactured of Backup and Uninterrupti manufactured on or after			
Mode	Requirement	Measured value	Verdict
Maintenance mode power	0.8 + 0.0021 x E _b watts =		N.A

Unit energy consumption (UEC) for a battery charger					
Formula	UEC Verdict		Verdict		
	Sample1	Sample2			
(i) UEC = $365(n(E_{24} - 5P_m - E_{batt})24/t_{cd} + (P_m(t_{a\&m} - (t_{cd} - 5)n) + (P_{sb}t_{sb}) + (P_{off}t_{off}))$			N/A		
(ii) UEC = $365(n(E_{24} - 5P_m - E_{batt})^24/(t_{cd} - 5) + (P_{sb}t_{sb}) + (P_{off}t_{off}))$	0.185 kWh/yr	0.183 kWh/yr	Pass		
Note: Calculate unit energy consumption (UEC) for a battery charger using one of the two equations (equation (i) or equation (ii)) listed. If a battery charger is tested and its charge duration as determined in section 5.2 of this appendix minus 5 hours is greater than the threshold charge time listed in table 5.3 below (<i>i.e.</i> (t_{cd} -5) * n > $t_{a\&m}$), use equation (ii) to calculate UEC; otherwise calculate the battery charger's UEC using equation (i).					

Maximum UEC limit					
Product class	Product class description	Rated battery energy (Ebatt**)	Special characteristic or battery voltage	Maximum UEC (kWh/yr) (as a function of Ebatt**)	Verdict
1	Low-Energy	≤20 Wh	Inductive Connection*	3.04	N/A
2	Low-Energy, Low- Voltage	<100 Wh	<4 V	0.1440 * E _{batt} +2.95	Pass
3	Low-Energy, Medium-Voltage	<100 Wh	4-10 V	For E _{batt} < 10 Wh, 1.42 kWh/y For E _{batt} ≥ 10 Wh, 0.0255 * E _{batt} + 1.16	N/A
4	Low-Energy, High- Voltage	<100 Wh	>10 V	0.11 * E _{batt} + 3.18	N/A
5	Medium-Energy, Low-Voltage	100-3000 Wh	<20 V	0.0257 * Ebatt + 0.815	N/A
6	Medium-Energy, High-Voltage	100-3000 Wh	≥20 V	0.0778 * Ebatt + 2.4	N/A
7	High-Energy	>3000 Wh		0.0502 * Ebatt + 4.53	N/A

*Inductive connection and designed for use in a wet environment (e.g. electric toothbrushes).

**E_{batt} = Rated battery energy as determined in 10 CFR part 429.39(a).

Maximum UEC (kWh/yr): 0.1440 * Ebatt+2.95= 0.144*(3.8V*500mAh)+2.95=3.2236 kWh/yr

Department of Energy (DOE) sampling plan for Battery chargers

Determination of represented values. Manufacturers must determine represented values, which include certified ratings, for each basic model of battery charger in accordance with the following sampling provisions.

Represented values include: the unit energy consumption (UEC) in kilowatt-hours per year (kWh/yr), battery discharge energy (E_{batt}) in watt-hours (Wh), 24-hour energy consumption (E_{24}) in watt-hours (Wh), maintenance mode power (P_m) in watts (W), standby mode power (P_{sb}) in watts (W), off mode power (P_{off}) in watts (W), and duration of the charge and maintenance mode test (t_{cd}) in hours (hrs).

For each basic model, a sample of sufficient size shall be randomly selected and tested to ensure that the represented value of UEC is greater than or equal to the higher of:

(A) The mean of the sample, where:

$$\bar{x} = \frac{1}{n} \sum_{i=1}^{n} x_i$$

and, \overline{x} is the sample mean; *n* is the number of samples; and x_i is the UEC of the *i*th sample or,

(B) The upper 97.5-percent confidence limit (UCL) of the true mean divided by 1.05, where:

$$UCL = \bar{x} + t_{0.975} \left(\frac{s}{\sqrt{n}}\right)$$

and \overline{x} is the sample mean; *s* is the sample standard deviation; *n* is the number of samples; and *t*_{0.975} is the t-statistic for a 97.5-percent one-tailed confidence interval with n-1 degrees of freedom (from appendix A of this subpart).

FIGURE 1-T-DISTRIBUTION VALUES FOR CERTIFICATION TESTING

[One-Sided]					
Degrees of freed	dom	Confidence Interval			
(from Appendix	(A)	90%	95%	97.5%	99%
1		3.078	6.314	12.71	31.82
2		1.886	2.920	4.303	6.965
3		1.638	2.353	3.182	4.541
4		1.533	2.132	2.776	3.747
5		1.476	2.015	2.571	3.365
6		1.440	1.943	2.447	3.143
7		1.415	1.895	2.365	2.998
8		1.397	1.860	2.306	2.896
9		1.383	1.833	2.262	2.821
10		1.372	1.812	2.228	2.764
11		1.363	1.796	2.201	2.718
12		1.356	1.782	2.179	2.681
13		1.350	1.771	2.160	2.650
14		1.345	1.761	2.145	2.624
15		1.341	1.753	2.131	2.602
16		1.337	1.746	2.120	2.583
17		1.333	1.740	2.110	2.567
18		1.330	1.734	2.101	2.552
19		1.328	1.729	2.093	2.539
20		1.325	1.725	2.086	2.528

While the sample standard deviation, *s*, is calculated using the formula below:

$$s = \sqrt{\frac{\displaystyle\sum_{i=0}^{n} (x_i - X)^2}{n-1}}$$

where:

X is the mean of sample n is the number of units tested x_i is the *i*th test result $\sum_{i=1}^{n} x_i$ is the sum of the results of n tests.

Test sample number	Active model energy consumption UEC (kWh/yr)	Product class	The represented value of Maximum UEC (kWh/yr)		
1 (first)	0.185				
2 (second)	0.183	2	0.101		
Mean	0.184	2	0.191		
UCL / 1.05	0.191				
Note 1. For coloulate the upper OZE percent confidence limit (IICI) of the true mean divided by 1.0Er p. 2					

Note 1: For calculate the upper 97.5-percent confidence limit (UCL) of the true mean divided by 1.05: n=2, $t_{0.975}$ =12.71, the sample mean energy consumption UEC is 0.184 with a standard deviation of s=0.0018.

Note 2: The charging system was evaluated according to the 10 CFR Part 430 (the energy conservation standards specified in the Code of Federal Regulations at 10 CFR 430.32(z)) to meets the CEC and DOE energy efficiency requirements

Determination of represented values					
Test sample number	Maximum 24 hour charge and maintenance energy (Wh)	The represented value of Maximum (Wh)	Maintenance Mode Power and No Battery Mode Power (W)	The represented value of Maximum (W)	
1	1.85		0.015		
2	1.80	2 042	0.015	0.015	
Mean	1.825	2.042	0.015	0.013	
UCL / 1.05	2.042		0.014		
Note: Unless otherwise specified, the minimum number of units tested shall be no less than two.					

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-----END OF REPORT------