



Test Report issued under the responsibility of:



Prodigy Technology Consultant Co., Ltd.

ENERGY EFFICIENCY TEST REPORT

Report No: T260130006-01-34-A0

Date of issued: 2026-03-04

Client

Name: HYPERTECHNOLOGIE CIARA INC

Address: 5555 Cypihot ST LAURENT, QC H4S 1R3 Canada

Test Item.....: ☐ Desktop Computer
☐ Integrated Desktop Computer (Category ☐ 1 ☐ 2)
☐ Notebook Computer
☐ Mobile Thin Client
☐ Two-In-One Notebook
☐ Mobile Workstation
☐ Multi-Screen Notebook
☐ Ruggedized Notebook
☐ Slate/Tablet
☐ Portable All-In-One Computer
☐ E-Reader
☐ Small-scale Server
☐ Thin Client
☐ Integrated Thin Client
☐ Ultra-thin Client
☒ Workstation
☐ Rack-mounted Workstation

Identification: Workstation

Testing laboratory

Name: Prodigy Technology Consultant Co., Ltd.

Address: No. 12, Gong 7th Rd., Linkou Dist., New Taipei City 24450, Taiwan CHINESE
TAIPEI

Test location

Name: Prodigy Technology Consultant Co., Ltd.

Address: No. 12, Gong 7th Rd., Linkou Dist., New Taipei City 24450, Taiwan CHINESE
TAIPEI

Test specification

Standard: ENERGY STAR® Program Requirements for Computer Version 9.0

Test Result: The Test Item Passed.

Test Report Form No: DTL-075-A12

Test Report Form Originator: Prodigy Technology Consultant Co., Ltd.

Master TRF: Dated 2025-03-18

Prepared By: Name: Tony Hsu

Signature: 

Date 2026-03-04



Test Report issued under the responsibility of:



Prodigy Technology Consultant Co., Ltd.

Approved By.....: Name: Hank Ju

Signature:

Date 2026-03-04

Other Aspects:

Total Pages of This Test Report:

■ Pages: 21

General disclaimer:

- The test results presented in this report relate only to the object tested.
- Measurement uncertainty will not be included in the conformity assessment statement.
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COMPANY NAME	↑ ORG ID	TYPE OF RECOGNIZED BODY	IS LAB 1ST PARTY?	PRODUCT TYPES	ADDRESS	CITY	STATE	COUNTRY
Prodigy Technology Consultant Co., Ltd.	1105438	Product Laboratory	N	Computers; Displays; Televisions	New Taipei City	New Taipei City		Chinese Taipei



Testing

Date(s) of receipt of test item.....: 2026-01-30

Date(s) of Performance of tests: 2026-02-04 to 2026-02-05

Additional information:

N/A

Model difference:

N/A

EUT Information

Description.....: Workstation

Trademark.....: 

Model Name.....: KRONOS 54X-GX (The "X" Can be 0-9, A-Z, a-z or blank, only for marketing purpose)

Model Number.....: KRONOS 545-G2

Model Difference.....: All models are identical, except for model designation.

Manufacturer.....: HYPERTECHNOLOGIE CIARA INC

Rating.....: 120Vac, 60Hz, 10A

Power Supply.....: ☐ External Power Supply ☐ With Cooling Fan
☒ Internal Power supply ☒ Output Power $\geq$ 75W
Guangdong Sohoo Technology Co., Ltd. / GX-1250

Power Supply specification.....: I/P: 100-240Vac, 50-60Hz, 15-8A
O/P: +3.3V/20A, +5V/20A, +12V/104A, -12V/0.3A, +5VSB/2.5A, Total 1250W max.

1. Internal Power Supply with maximum rated output power $<$ 75W shall meet minimum efficiency requirements as specified in Table 1.
2. Internal Power Supply with maximum rated output power $\geq$ 75W or External Power Supply with cooling fan shall meet both minimum efficiency and power factor requirements as specified in Table 1 or Table 2 as applicable. shown as below.

Table 1: Requirements for Internal Power Supplies with Rated Output of 500 Watts and Below

Loading Condition (% of Nameplate Output Current)	Minimum Efficiency	Minimum Power Factor
10%	0.80	--
20%	0.82	--
50%	0.85	0.90
100%	0.82	--

Table 2: Requirements for Internal Power Supplies with Rated Output Above 500 Watts

Loading Condition (% of Nameplate Output Current)	Minimum Efficiency (115V)	Minimum Power Factor
--	------------------------------	-------------------------



	10%	0.80	--
	20%	0.87	--
	50%	0.90	0.90
	100%	0.87	--

External Power Supply shall Meet the Requirements International Efficiency Marking Protocol Level VI.

Test Condition:

Temperature: 24.1/24.1 °C

Relative humidity: 56.2/56.8%

Air pressure: 986.3/985.8 mbar

Air Speed: <0.3 m/s



1. Computer Characterization :

Item	Characterization
Product (Unit) Type	Workstation
Brand Name/Manufacturer	All models are identical, except for model designation.
Model Name	KRONOS 54X-GX (The "X" Can be 0-9, A-Z, a-z or blank, only for marketing purpose)
Model Number	KRONOS 545-G2
Test Model	KRONOS 545-G2
Processor Brand	Intel® Core™
Processor Name	i7-14700KF
Processor Speed	3.4GHz
Cores	20
Category	I2
Operating System Name	Windows 11 Pro
System Memory	32GB
Storage device and memory	512GB
Storage device number	1
Additional Internal Storage	N/A
Panel size	N/A
Viewable screen area	N/A
Display resolution	N/A
Energy efficient Ethernet	N/A
Wake on LAN	No
☐ External Power Supply	N/A
☐ External Power Supply with Cooling Fan	N/A
☒ Internal Power Supply	Comply with International Efficiency Marking Protocol Level VI or higher
GPU	NVIDIA / RTX 5060
Product sold through enterprise channel	Yes
Has the ability to enable and disable WOL for sleep mode	No
Switchable graphics enables in AC mode	No
Number of Ethernet ports	2 (transmitting rate: 2.5Gbps)
Model difference affects efficiency	No



2. Measuring Instruments and Calibration List (see attachment A for details)

Table 3. Power management requirement

Mode or Model Transition	Requirement	Yes/NA	
System Sleep/ Alternative Low Power Mode	(1) Sleep/Alternative Low Power Model shall be set to activate after no more than 30 minutes of user inactivity. (2) The speed of any active 1 Gb/s or faster Ethernet network links shall be reduced when transitioning to Sleep Mode or Off Mode. Or the links shall enter Energy Efficient Ethernet state when transitioning to Alternative Low Power Mode.	☒ Yes	☐ NA
Display Sleep Mode	(1) Display Sleep Mode shall be set to activate after <u>no</u> more than 15 minutes of user inactivity. Measurement: 4 minutes in default of user inactivity.	☒ Yes	☐ NA
Wake on LAN (WOL)	(1) Computers with Ethernet capability shall provide users with an option to enable and disable WOL for Sleep Mode. (2) Computers with Ethernet capability that are shipped through enterprise channels shall either: (a) be shipped with WOL enabled by default for Sleep Mode, when the computer is operating on ac mains power; or (b) Provide users with the ability to enable WOL that is accessible from both the client operating system user interface and over the network.	☐ Yes	☒ NA
Wake Management	1) Computers with Ethernet capability that are shipped through enterprise channels shall: (a) be capable of both remote (via network) and scheduled (via real-time clock) wake events from Sleep Mode, and (b) Provide clients with the ability to centrally manage (via vendor tools) any wake management settings that are configured through hardware settings if the manufacturer has control over such features.	☐ Yes	☒ NA

3. Limit

TEC will be determined using the formula below:

1) Equation 1: Calculation of Typical Annual Electricity Use (E_{TEC}) for Desktop, Integrated Desktop and Notebook Computers:

$$E_{TEC} = (8760/1000) * (P_{OFF} * T_{OFF} + P_{SLEEP} * T_{SLEEP} + P_{LONG_IDLE} * T_{LONG_IDLE} + P_{SHORT_IDLE} * T_{SHORT_IDLE})$$

Where

- P_{OFF} = Measured power consumption in Off Mode (W);
- P_{SLEEP} = Measured power consumption in Sleep Mode (W);
- P_{LONG_IDLE} = Measured power consumption in Long Idle Mode (W);
- P_{SHORT_IDLE} = Measured power consumption in Short Idle Mode (W); and
- T_{OFF} , T_{SLEEP} , T_{LONG_IDLE} , and T_{SHORT_IDLE} are mode weightings as specified in Table 4 (for Desktops, Integrated Desktops) or Table 5 (for Notebooks).



Table 4: Mode Weightings for Desktops and Integrated Desktop Computers

Mode Weighting	Conventional
T_{OFF}	15%
T_{SLEEP}	45%
T_{LONG_IDLE}	10%
T_{SHORT_IDLE}	30%

Table 5: Mode Weightings for Notebook Computers

Mode	Mode Weighting
T_{OFF}	10%
T_{SLEEP}	60%
T_{LONG_IDLE}	10%
T_{SHORT_IDLE}	20%

□ For Notebooks, Desktops, and Integrated Desktops that use an Alternative Low Power Mode in place of System Sleep Mode and Long Idle Mode, power in Alternative Low Power Mode (P_{ALPM}) may be used in place of both the power in Sleep (P_{SLEEP}) and the power in Long Idle (P_{LONG_IDLE}) in Equation 1 if the Alternative Low Power Mode measured power is less than or equal to 10 watts. In such instances, $(P_{SLEEP} \times T_{SLEEP})$ and $(P_{LONG_IDLE} \times T_{LONG_IDLE})$ are replaced by $(P_{ALPM} \times T_{SLEEP})$ and $(P_{ALPM} \times T_{LONG_IDLE})$; Equation 1 remains otherwise unchanged.

□ Notebooks, Desktops, and Integrated Desktops with switchable graphics may not apply the Discrete Graphics allowance, $TEC_{GRAPHICS}$, from Table 11 in Equation 2. However, for Desktop and Integrated Desktop systems that provide automated Switchable Graphics enabled by default, an allowance equal to 14.4 watts (Desktop or Integrated Desktop) may be applied. This capability is manufacturer-declared.

Slates/Tablets and Portable All-In-One Computers shall follow all of the requirements for Notebook Computers, including calculations of the following:

- Calculated Typical Energy Consumption (E_{TEC}), using Equation 1 with the Notebook Computer Mode Weightings from Table 5.
- Calculated Maximum Allowed Typical Energy Consumption (E_{TEC_MAX}), using Equation 2 with the appropriate base Notebook Computer allowance from Table 6, and applicable Notebook Computer functional adder allowances from Table 7.

2) Equation 2: Calculation of Maximum Typical Annual Electricity Use (E_{TEC_MAX}) For Desktop, Integrated Desktop, and Notebook Computers:



$$E_{TEC_MAX} = (TEC_{BASE} + TEC_{MEMORY} + TEC_{GRAPHICS} + TEC_{STORAGE} + TEC_{INT_DISPLAY} + TEC_{SWITCHABLE} + TEC_{MOBILEWORKSTATION} + TEC_{>1G\ to\ <10GLAN} + TEC_{10GLAN} + TEC_{MUX} + TEC_{RUGGED})$$

Where:

- TEC_{BASE} is the Base allowance specified in Table 6; and,
- $TEC_{GRAPHICS}$ is the discrete graphics allowance as specified in Table 7, with the exception of systems with integrated graphics, which do not receive an allowance, or Desktops and Integrated Desktops with switchable graphics enabled by default, which receive an allowance through $TEC_{SWITCHABLE}$; and
- TEC_{MEMORY} , $TEC_{STORAGE}$, $TEC_{INT_DISPLAY}$, $TEC_{SWITCHABLE}$, $TEC_{MOBILEWORKSTATION}$, $TEC_{>1G\ to\ <10GLAN}$, TEC_{10GLAN} , TEC_{MUX} and TEC_{RUGGED} are adder allowances as specified in Table 7 and Equations 3 and 4 for enhanced performance integrated display and touch allowance.

Table 6: Base TEC (TEC_{BASE}) Allowances for Notebooks, Desktops, and Integrated Desktops

Category	Power Supply Rated Output	Base Allowance (kWh)
Notebook	All Outputs	7.8
Integrated Desktop – Category 1	< 120 watts	8.5
Integrated Desktop – Category 2	≥ 120 watts	18.9
Desktop	All Outputs	40.5



Table 7: Functional Adder Allowances for Desktop, Integrated Desktop, Thin Client, and Notebook Computers

Function		Desktop	Integrated Desktop	Notebook
TEC _{MEMORY} (kWh) ⁱⁱⁱ		0.15 × GB		0.12 × GB
TEC _{GRAPHICS} (kWh) ^{iv, v}		29.4 × tanh(0.008 × FB_BW − 0.03) + 11 + (0.011 × FB_BW)		14.7 × tanh(0.008 × FB_BW − 0.03) + 5.5 + (0.0055 × FB_BW)
TEC _{SWITCHABLE} (kWh) ^{vi}		7.0		N/A
TEC _{STORAGE} (kWh) ^{vii}	3.5" HDD	12.0		0.8
	2.5" HDD	2.1		
	Hybrid HDD/SSD	0.8		
	SSD (including M.2 port solutions)	0.4		0.4
TEC _{INT_DISPLAY} (kWh) ^{viii}	A < 190	N/A	[(3.43 × r) + (0.148 × A) + 1.30] × (1 + EP + T)	8.76 × 0.20 × (1+EP + T) × (0.43×r + 0.0263×A)
	190 ≤ A < 210		[(3.43× r) + (0.018 × A) + 26.1] × (1 + EP + T)	
	210 ≤ A < 315		[(3.43 × r) + (0.078 × A) + 13.2] × (1 + EP + T)	
	A ≥ 315		[(3.43 × r) + (0.156 × A) - 11.3] × (1 + EP + T)	
TEC _{MOBILEWORKSTATION} (kWh) ^{ix}		N/A		4.4
TEC _{>1G to <10GLAN} (kWh) ^x		4.0		N/A
TEC _{10GLAN} (kWh) ^{xi}		18.0		N/A
TEC _{MUX} (kWh) ^{xii}		N/A	12.2	5.2
TEC _{RUGGED} (kWh) ^{xiii}		N/A		5.6

iii **TEC_{MEMORY} Adder:** GB applies per GB installed in the system.

iv **TEC_{GRAPHICS} Adder:** Applies to only the first dGfx installed in the system, but not Switchable Graphics.

v **FB_BW:** Is the display frame buffer bandwidth in gigabytes per second (GB/s). This is a manufacturer declared parameter and should be calculated as follows: (Data Rate [Mhz] $\times$ Frame Buffer Data Width [bits]) / (8 $\times$ 1000)

vi **TEC_{SWITCHABLE} Incentive:** Applies to automated switching that is enabled by default in Desktops and Integrated Desktops.

vii **TEC_{STORAGE} Adder:** Applies once if system has an Additional Internal Storage device.

viii **TEC_{INT_DISPLAY} Adder:** EP is the Enhanced Performance Display allowance calculated per Equation 3; T is touch functionality calculated per Equation 4; r is the Screen resolution in megapixels; and A is viewable screen area in square inches. This adder may be applied for each display if there are multiple displays in the system which are enabled as-shipped and in testing.

ix **TEC_{MOBILEWORKSTATION} Adder:** Applies once if the system meets the full Mobile Workstation definition in Section 1.

x **TEC_{>1G to <10GLAN} Adder:** Applies once if system contains an Ethernet port with rated throughput greater than 1Gb/s but less than 10 Gb/s.

xi **TEC_{10GLAN} Adder:** Applies once if the system contains a 10 Gb/s Ethernet port.

xii **TEC_{MUX}:** Only applies to products with both integrated and discrete graphics that are driven by a MUX device on the motherboard.

xiii **TEC_{RUGGED}:** Applies only to Notebook Computers that meet the Ruggedized Notebook Computer definition.



Equation 3: Calculation of Allowance for Enhanced-performance Integrated Displays

$$EP = 0.3 \text{ for all Enhanced Performance Displays}$$

Equation 4: Calculation of Allowance for Integrated Displays with Touch Functionality

$$T = 0.17 \text{ for all Displays with Touch Functionality}$$

- Slates/Tablets and Portable All-In-One Computers shall follow **all** of the requirements for Notebook Computers in Section 3.5 above, including calculations of the following:
 - i. Calculated Typical Energy Consumption (ETEC), using Equation 1 with the Notebook Computer Mode Weightings from Table 5.
 - ii. Calculated Maximum Allowed Typical Energy Consumption (ETEC_MAX), using Equation 2 with the appropriate base Notebook Computer allowance from Table 6, and applicable Notebook Computer functional adder allowances from Table 7.

Equation 5: P_{TEC} Calculation for Workstations

$$P_{TEC} = P_{OFF} \times T_{OFF} + P_{SLEEP} \times T_{SLEEP} + P_{LONG_IDLE} \times T_{LONG_IDLE} + P_{SHORT_IDLE} \times T_{SHORT_IDLE}$$

Where:

- P_{OFF} = Measured power consumption in Off Mode (W);
- P_{SLEEP} = Measured power consumption in Sleep Mode (W);
- P_{LONG_IDLE} = Measured power consumption in Long Idle Mode (W);
- P_{SHORT_IDLE} = Measured power consumption in Short Idle Mode (W); and
- T_{OFF} , T_{SLEEP} , T_{LONG_IDLE} , and T_{SHORT_IDLE} are mode weightings as specified in Table 8.

Table 8: Mode Weightings for Workstations

T_{OFF}	T_{SLEEP}	T_{LONG_IDLE}	T_{SHORT_IDLE}
10%	35%	20%	35%

Equation 6: P_{TEC_MAX} Calculation for Workstations

$$P_{TEC_MAX} = 0.28 \times (P_{MAX} + N_{HDD} \times 5)$$

Where:

- P_{MAX} = Measured maximum power consumption (W)
- N_{HDD} = Number of installed hard disk drives (HDD) or solid-state drives (SSD)



Weighted power consumption (PTEC) as calculated per Equation 5 shall be less than or equal to the maximum weighted power consumption requirement (PTEC_MAX) as calculated per Equation 6.

6) Formula 6: Calculation of Maximum Typical Annual Electricity Use (E_{TEC_MAX}) For Thin Client:

- Calculated Typical Energy Consumption (ETEC) per Equation 1 shall be less than or equal to the Maximum TEC Requirement (ETEC_MAX), as calculated per Equation 7, subject to the following requirements.
 - i. Allowances can only be applied if the corresponding adders are enabled by default.
 - ii. Thin Clients shall utilize the mode weightings in Table 11 when calculating ETEC.
 - iii. For Thin Clients that lack a discrete System Sleep Mode, Long Idle State power (P_{LONG_IDLE}) may be used in place of Sleep Mode Power (P_{SLEEP}) in Equation 1 so long as the system meets the Thin Client TEC allowance. In such instances, (P_{SLEEP} × T_{SLEEP}), is replaced by (P_{LONG_IDLE} × T_{SLEEP}); Equation 1 remains otherwise unchanged.

Table 9: Mode Weightings for Thin Clients

T _{OFF}	T _{SLEEP}	T _{LONG_IDLE}	T _{SHORT_IDLE}
45%	5%	15%	35%

Equation 7: Calculation of E_{TEC_MAX} for Thin Clients

$$E_{TEC_MAX} = TEC_{BASE} + TEC_{GRAPHICS} + TEC_{WOL} + TEC_{INT_DISPLAY}$$

Where:

- TEC_{BASE} is the Base Allowance specified in Table
- Table 11;
- TEC_{GRAPHICS} is the Discrete Graphics allowance specified in Table 11 if applicable;
- TEC_{WOL} is the Wake-on-LAN allowance specified in Table
- Table 11 if applicable;
- TEC_{INT_DISPLAY} is the Integrated Display allowance for Integrated Desktops specified in Table 7 if applicable; and

Table 11: Adder Allowances for Thin Clients

Adder	Allowance (kWh)
TEC _{BASE}	31
TEC _{GRAPHICS}	36
TEC _{WOL}	2



4. Test Method:

According to Energy Star Program Requirements for Computer – Test Method (Rev. Jan.-2025)

NOTE: TEST PROCEDURES FOR WORKSTATIONS (Section 7)

Maximum Power Test (Section 7.1)

The maximum power for Workstations is found by the simultaneous operation of two industry standard benchmarks: LINPACK to stress the core system (e.g., processor, memory, etc.) and SPECviewperf® (latest available version for the UUT) to stress the system's Graphics Processing Unit (GPU). This test shall be repeated three times on the same UUT, and all three measurements shall fall within a $\pm 2\%$ tolerance relative to the average of the three measured maximum power values. The average power should be used for qualification and/or TEC calculations.

Table 3: Benchmark Information for Maximum Power Test

Benchmark	Website
LINPACK	http://www.netlib.org/linpack/
SPECviewperf	http://www.spec.org/benchmarks.html#gpc

Benchmark Test (Section 7.2)

The benchmark test shall be performed by running both benchmarks listed below separately. The UUT shall be rebooted before testing with each benchmark. Additional information on these benchmarks, including downloads, can be found at the following locations specified in Table 4. All testing shall be performed with the latest available version of the benchmarks.

Table 4: Information for Benchmark Testing

Benchmark	Website
LINPACK	http://www.netlib.org/linpack/
SPECviewperf	http://www.spec.org/benchmarks.html#gpc



5. Test Result:

Equation 1: Calculation Of Typical Annual Electricity Use (E_{TEC}) for Desktop, Integrated Desktop, and Notebook Computers:

$$E_{TEC} = (8760/1000) * (P_{OFF} * T_{OFF} + P_{SLEEP} * T_{SLEEP} + P_{LONG_IDLE} * T_{LONG_IDLE} + P_{SHORT_IDLE} * T_{SHORT_IDLE})$$

Where all P_x are power values in watts, all T_x are mode weightings and the E_{TEC} is in units of kWh and represents annual consumption based on mode weightings.

Table 10: Test Results

Test Results							--
Test Sample Model No.				--			—
Category				--			—
Test voltage(V)	Test Frequency (Hz)	P_{OFF}	P_{SHORT_IDLE}	P_{LONG_IDLE}	P_{SLEEP}	E_{TEC}	
115	60	--	--	--	--	--	
230	50	--	--	--	--	--	
100	50	--	--	--	--	--	
100	60	--	--	--	--	--	
T%	--	15%	30%	10%	45%	--	



Note:

Additional testing for reporting: For Notebook Computers, repeat the Short Idle test with the display brightness set to the closest setting that is at least 150 cd/m² for all displays.

2) Equation 2: Calculation of Maximum Typical Annual Electricity Use (E_{TEC_MAX}) For Desktop, Integrated Desktop, and Notebook Computers:

Table 11: Test Results

		Test Results					--
		Test Sample Model No.			--		—
		Category			--		—
Allowance _{PSU}	Allowance _{proxy}	TEC _{BASE} (kWh)	TEC _{MEMORY} (kWh)	TEC _{GRAPHICS} (kWh)	TEC _{STORAGE} (kWh)		
--	--	--	--	--	--		

TEC _{INT_DISPLAY} (kWh)	TEC _{SWITCHABLE} (kWh)	TEC _{IMobileworkstation} (kWh)	TEC _{>1G to <10GLAN} (kWh)	TEC _{10GLAN} (kWh)	E_{TEC_MAX} (kWh)
--	--	--	--	--	--

3) Equation 3: Calculation of Allowance for Enhanced-performance Integrated Displays

$$EP = \begin{cases} 0, & \text{No Enhanced Performance Display} \\ 0.3, & \text{Enhanced Performance Display, } d < 27 \\ 0.75, & \text{Enhanced Performance Display, } d \geq 27 \end{cases}$$

Where:

- d is the diagonal of the screen, in inches;



4) Equation 4: Calculation of weighted power consumption (P_{TEC}) for Workstations

$$P_{TEC} = P_{OFF} * T_{OFF} + P_{SLEEP} * T_{SLEEP} + P_{LONG_IDLE} * T_{LONG_IDLE} + P_{SHORT_IDLE} * T_{SHORT_IDLE}$$

Where all P_x are power values in watts, all T_x are mode weightings and the E_{TEC} is in units of kWh and represents annual consumption based on mode weightings.

Table 12: Test Results

Test Results						Pass
Test Sample Model No.			01			—
Category			--			—
Test voltage(V)	Test Frequency (Hz)	P_{OFF}	P_{SHORT_IDLE}	P_{LONG_IDLE}	P_{SLEEP}	P_{TEC}
115	60	0.004 #	59.168	49.701	2.449	31.50655
230	50	--	--	--	--	--
100	50	--	--	--	--	--
100	60	--	--	--	--	--
T%	--	10%	35%	20%	35%	--

Note:
115V

$$\begin{aligned}
 &0.004 * 0.10 + 2.449 * 0.35 + 49.701 * 0.20 + 59.168 * 0.35 \\
 &= 0.0004 + 0.85715 + 9.9402 + 20.7088 \\
 &= 31.50655
 \end{aligned}$$

#: Mains switch off.



5) Equation 5: Calculation of Maximum weighted Power Consumption (P_{TEC_MAX}) for: Workstations

$$P_{TEC_MAX} = 0.28 * (P_{MAX} + N_{HDD} * 5)$$

Table 13: Test Results

Test Results			Pass
Test Sample Model No.		01	—
Category		--	—
P_{MAX} (W)	N_{HDD}	P_{TEC_MAX} (W)	
346.860	1	98.52	

Note:

$$\begin{aligned}
 &0.28 * (346.860 + 1 * 5) \\
 &= 0.28 * 351.860 \\
 &= 98.52080000000001
 \end{aligned}$$

Active state benchmark:

a) LINPACK benchmark results:

i.	Value of “n” (the array size) used for LINPACK	55000
ii.	Number of instances of LINPACK simultaneously run on the system	5
iii.	All compiler options used in compiling LINPACK	Intel oneAPI 2025.3
iv.	Energy consumed over the duration of the test (W)	121.6
v	Duration of the test (s)	199.528

b) SPECviewer benchmark results:

i.	Version of SPECviewperf used	SPECviewperf® 15.0.1
ii.	All compiler optimizations used in compiling SPECviewperf	Official precompiled binary, no custom compilation
iii.	Duration of the test (min)	
iv.	Energy consumed over the duration of the test (W)	263.9



6) Equation 6: Calculation of Maximum Typical Annual Electricity Use (E_{TEC_MAX}) For Thin Client:

$$E_{TEC_MAX} \text{ (kWh)} = TEC_{BASE} + TEC_{GRAPHICS} + TEC_{WOL} + TEC_{INT_DISPLAY}$$

Table 16: Test Results

Test Results					—
Test Sample Model No.			--		—
Category			--		—
TEC _{BASE} (kWh)	TEC _{GRAPHICS} (kWh)	TEC _{WOL} (kWh)	TEC _{INT_DISPLAY} (kWh)	E _{TEC_MAX} (kWh)	
--	--	--	--	--	



6. Photos:

Overall Views





Connector Views





(For Internal ATX Power Supply)
(Meet the Requirements International Efficiency Marking Protocol Level VI.)

(Guangdong Sohoo Technology Co., Ltd. / GX-1250)





7. Test Instrument List

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date
Quartz Watch Analyzer	HuanKwun	HK-500	23	2026-11-16
Electronic Balance	Kingship	GRW-150	414336	2026-04-06
Digimatic Caliper	Mitutoyo	500-196-20	06055113	2026-11-06
Measuring Tape	Dragon	D193	40	2028-09-30
Hot wire anemometer	TECPEL	AVM-714	Q570725	2026-05-05
Digital Power Meter	Yokogawa	WT310E	C3TE30008E	2026-03-15
Temperature/Relative Humidity Data Logger	HOBO	MX1101	22106680	2026-05-13

Note: All equipment upon which need to calibrated are with calibration period of 1 year, except for “Measuring Tape” which is with calibration period of 3 years.