


Product model number	SDS-ONE APEX4
Year of manufacture	2021
Product type and category	Desktop computer, Category D
Manufacturer's name and address	SHIMA SEIKI MFG.,LTD. 85 Sakata Wakayama Japan

Test parameters for measurements

Setup and circuits used for electrical testing	 <p>Factory standard configuration (Design system main unit, Monitor, Keyboard, Mouse, Tablet and Subkeyboard.)</p>
Test parameters for measurements	Computer energy consumption is tested at 230 Volts / 50 Hz.
Maximum THD (%)	0.47
Ambient Temperature (degC)	22 - 27
Relative Humidity (%)	41 - 70
Air Flow (m/s)	0.23 (max)
Measurement methodology	IEC62623-2013 Warm-up for more than 30 min before measurement.
How to enter off mode and/or sleep mode	Select Sleep or Shutdown from start menu.

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	VGA card	Standard Graphics(P620)		Hyper Graphics(P5000) Hyper Graphics(RTX5000)		
	Monitor	BASIC(Onboard Graphics)	CS2420(CS2400S)	CS2730(CS2731)	CS2420(CS2400S)	CS2730(CS2731)
Idle state power demand (W)		32.5018500	36.5593330	36.8365000	42.0594833	43.0470000
Sleep mode with WOL enabled power demand (W)		1.5019900	1.4946233	1.5036017	1.4927983	1.4925333
Sleep mode power demand (W)		1.4980867	1.4912767	1.5047517	1.4968883	1.4935683
Off mode with WOL enabled power demand (W)		1.1753517	1.1757100	1.1746483	1.1732517	1.1741400
Off mode power demand (W)		1.1724317	1.1761650	1.1763750	1.1768533	1.1753850
E _{TEC} (kWh/year)		$(8760/1000) * (0.55 * P_{OFF} + 0.05 * P_{SLEEP} + 0.40 * P_{IDLE})$				
	WOL enabled	120.207	134.423	135.393	153.683	157.147
	WOL disabled	120.191	134.424	135.402	153.780	157.154
					173.780	173.780
					173.780	173.780

User information

Power Management energy-saving potential	You can help reduce electricity usage and its side effects by leaving the power-management features enabled and by turning off your product when it is not in use for extended periods of time.
Power management functionality	Select Sleep or Shutdown from start menu.

Internal Power supply efficiency


Efficiency, 230V/60Hz			Power Factor @100% Load
20% Load	50% Load	100% Load	
86.48%	85.71%	85.23%	0.98

Noise levels (the declared A-weighted sound power level)

VGA card	BASIC(Onboard Graphics)	Standard Graphics(P620)	Hyper Graphics(P5000) Hyper Graphics(RTX5000)
Test parameters for measurements	Computer energy consumption is tested at 230 Volts / 50 Hz.		
Measurement methodology	ISO7779(2010)		
Ambient Temperature (degC)	25		
Relative Humidity (%)	51		
Test condition	High load test program to CPU and graphics.		
A-weighted sound power level (dB)	43.6	42.1	45.8 48.1

Product model number	SDS-ONE APEX4-2
Year of manufacture	2023
Product type and category	Desktop computer, Category D
Manufacturer's name and address	SHIMA SEIKI MFG.,LTD. 85 Sakata Wakayama Japan

Test parameters for measurements

Setup and circuits used for electrical testing	 <p>Factory standard configuration (Design system main unit, Monitor, Keyboard, Mouse, Tablet and Subkeyboard.)</p>
Test parameters for measurements	Computer energy consumption is tested at 230 Volts / 50 Hz.
Maximum THD (%)	0.47
Ambient Temperature (degC)	21.4 - 24.4 ⁽⁺¹⁾ 22.6 - 23.5 ⁽⁺²⁾
Relative Humidity (%)	49.3 - 53.0 ⁽⁺¹⁾ 49.0 - 53.3 ⁽⁺²⁾
Air Flow (m/s)	0.23 (max) ⁽⁺¹⁾ 0.15 (max) ⁽⁺²⁾
Measurement methodology	IEC62623-2013 Warm-up for more than 30 min before measurement.
How to enter off mode and/or sleep mode	Select the Sleep or Shutdown from start menu.

⁽⁺¹⁾ Test date 2023-10-31

⁽⁺²⁾ Test date 2023-11-01

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VGA card	BASIC(Onboard Graphics) ⁽⁺¹⁾	Standard Graphics(T400) ⁽⁺¹⁾	Hyper Graphics(RTX A4500) ⁽⁺²⁾	
Monitor	EV2430	CS2400S	CS2731	
Idle state power demand (W) (Long Idle)	27.3427333	32.0931833	36.9815667	
Sleep mode with WOL enabled power demand (W)	1.6995467	1.7023250	1.6937167	
Sleep mode power demand (W)	1.7021367	1.6991133	1.6954500	
Off mode with WOL enabled power demand (W)	1.4897300	1.4923100	1.4948083	
Off mode power demand (W)	1.4233617	1.4218250	1.4289183	
E _{TEC} (kWh/year)	(8760/1000) * (0.55*P _{OFF} + 0.05*P _{SLEEP} + 0.40*P _{IDLE})			
	WOL enabled	103.731	120.390	137.527
	WOL disabled	103.412	120.049	137.211

User information

Power Management energy-saving potential	You can help reduce electricity usage and its side effects by leaving the power-management features enabled and by turning off your product when it is not in use for extended periods of time.
Power management functionality	Select Sleep or Shutdown from start menu.

Internal Power supply efficiency

Efficiency, 230V/60Hz			Power Factor @100% Load
20% Load	50% Load	100% Load	
86.48%	85.71%	85.23%	0.98

Noise levels (the declared A-weighted sound power level)

VGA card	BASIC(Onboard Graphics)	Standard Graphics(T400)	Hyper Graphics(RTX A4500)
Test parameters for measurements	Computer energy consumption is tested at 230 Volts / 50 Hz.		
Measurement methodology	ISO3744(2010)		
Ambient Temperature (degC)	23		
Relative Humidity (%)	44		
Test condition	High load test program to CPU and graphics.		
A-weighted sound power level (dB)	42.9	44.1	46.4