SHIMA SEIKI

COMMISSION REGULATIONS ErP Technical Documentation
COMMISSION REGULATION(EU) 2019/424 (ErP Lot 3)

9 November 2023

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	 Factory standard configuration (Design system main unit, Monitor, Keyboard, Mouse, Tablet and Subkeyboard.)
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.

COMMISSION REGULATION(EU) No 617/2013 of 26 June 2013

VGA card		BASIC(Onboard Graphics)	Standard Graphics(P620)		Hyper Graphics(P5000) Hyper Graphics(RTX5000)	
Monitor		EV2430	CS2420(CS2400S)	CS2730(CS2731)	CS2420(CS2400S)	CS2730(CS2731)
Idle state power demand (W)		32.5018500	36.5593330	36.8365000	42.0594833 47.7400000	43.0470000 48.8500000
Sleep mode with WOL enabled power demand (W)		1.5019900	1.4946233	1.5036017	1.4927983 1.5590000	1.4925333 1.5670000
Sleep mode power demand (W)		1.4980867	1.4912767	1.5047517	1.4968883 1.5595000	1.4935683 1.5670000
Off mode with WOL enabled power demand (W)		1.1753517	1.1757100	1.1746483	1.1732517 1.1857830	1.1741400 1.1857660
Off mode power demand (W)		1.1724317	1.1761650	1.1763750	1.1768533 1.1857820	1.1753850 1.1857650
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	153.683 173.780	157.147 173.780
	WOL disabled	120.191	134.424	135.402	153.702 173.780	157.154 173.780

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

SHIMA SEIKI

COMMISSION REGULATIONS ErP Technical Documentation
COMMISSION REGULATION(EU) 2019/424 (ErP Lot 3)

16 April 2026

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	 Factory standard configuration (Design system main unit, Monitor, Keyboard, Mouse, Tablet and Subkeyboard.)	
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

COMMISSION REGULATION(EU) No 617/2013 of 26 June 2013

VGA card		BASIC(Onboard Graphics) (*1)	Standard Graphics(T400) (*1)	Hyper Graphics(RTX A4500) (*2)
Monitor		EV2430(EV2410R)	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_{LONG_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