



HP P500 DataSheet



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1.0 Overview

HP P500 with 3 capacity sizes: 120GB 、 250GB and 500GB.

With the USB 3.1 Gen2 interface, the sequential read speed up to 380MB/s and sequential write speed up to 200MB/s, can be connected with iMac, MacBook, Thinkpad. AI- in-one computers Smartphone etc which host have USB Type-C interface

As compared to standard portable SSD, HP P500 Series offers these key features:

- Fashionable cosmetic
- Portable
- High reliability
- Enhanced ruggedness
- High data Integrity and Security



2.0 Performance Detail

Performance \ Capacity	120GB	250GB	500GB
Random 4 KB reads	6.5K IOPS	6.5K IOPS	6.5K IOPS
Random 4 KB writes	12.0K IOPS	12.0K IOPS	12.0K IOPS
Sustained sequential read	380M/s	370M/s	370M/s
Sustained sequential write	110M/s	200M/s	200M/s



3.0 Power Consumption

Electrical Characteristics	120GB	250GB	500GB
Operating Voltage for 5V (+/- 5%)			
read	1.8 W	1.9 W	1.8 W
write	2.0 W	2.7 W	3.2 W
Idle	1 W	1.05W	1.2 W



4.0 Order Information

Country/Region	Capacity	Part Number	Heat-sink Color
APJ	120GB	6FR73AA#UUF	Black
		7PD46AA#UUF	Red
		7PD47AA#UUF	Blue
		7PD48AA#UUF	Silver
	250GB	7NL52AA#UUF	Black
		7PD49AA#UUF	Red
		7PD50AA#UUF	Blue
		7PD51AA#UUF	Silver
	500GB	7NL53AA#UUF	Black
		7PD53AA#UUF	Red
		7PD54AA#UUF	Blue
		7PD55AA#UUF	Silver



4.0 Order Information

Country/Region	Capacity	Part Number	Heat-sink Color
NA&LA	120GB	6FR73AA#ABC	Black
		7PD46AA#ABC	Red
		7PD47AA#ABC	Blue
		7PD48AA#ABC	Silver
	250GB	7NL52AA#ABC	Black
		7PD49AA#ABC	Red
		7PD50AA#ABC	Blue
		7PD51AA#ABC	Silver
	500GB	7NL53AA#ABC	Black
		7PD53AA#ABC	Red
		7PD54AA#ABC	Blue
		7PD55AA#ABC	Silver



4.0 Order Information

Country/Region	Capacity	Part Number	Heat-sink Color
EURO	120GB	6FR73AA#ABB	Black
		7PD46AA#ABB	Red
		7PD47AA#ABB	Blue
		7PD48AA#ABB	Silver
	250GB	7NL52AA#ABB	Black
		7PD49AA#ABB	Red
		7PD50AA#ABB	Blue
		7PD51AA#ABB	Silver
	500GB	7NL53AA#ABB	Black
		7PD53AA#ABB	Red
		7PD54AA#ABB	Blue
		7PD55AA#ABB	Silver



5.0 Environmental Conditions

Parameter	Value
Ambient Temperature	
Operating	0 to 60 °C
Non-operating	-40 to 85 °C
Temperature Gradient(1)	
Operating	20 (Typical) °C/hr
Non-operating	30 (Typical) °C/hr
Humidity	
Operating	20%RH-95%RH
Non-operating	20%RH-95%RH
Shock, Vibration, Acoustics	
Range	
Shock(2)	
Operating	100 G/6 msec
Non-operating	100 G/6 msec
Vibration(3)	
Operating	3.1 GRMS (2-500 Hz)
Non-operating	3.1 GRMS (2-500 Hz)

Notes:

(1). Temperature gradient measured without condensation.

(2). Shock specifications assume the SSD is mounted securely with the input vibration applied to the drive-mounting screws. Stimulus may be applied in the X, Y or Z axis. Shock specification is measured using root mean square (RMS) value.

(3). Vibration specifications assume the SSD is mounted securely with the input vibration applied to the drive-mounting screws.

Stimulus may be applied in the X, Y or Z axis. The measured specification is in root mean squared form. Vibration specification is measured using RMS value.



6.0 Reliability Specifications

Total Byte Written and Warranty

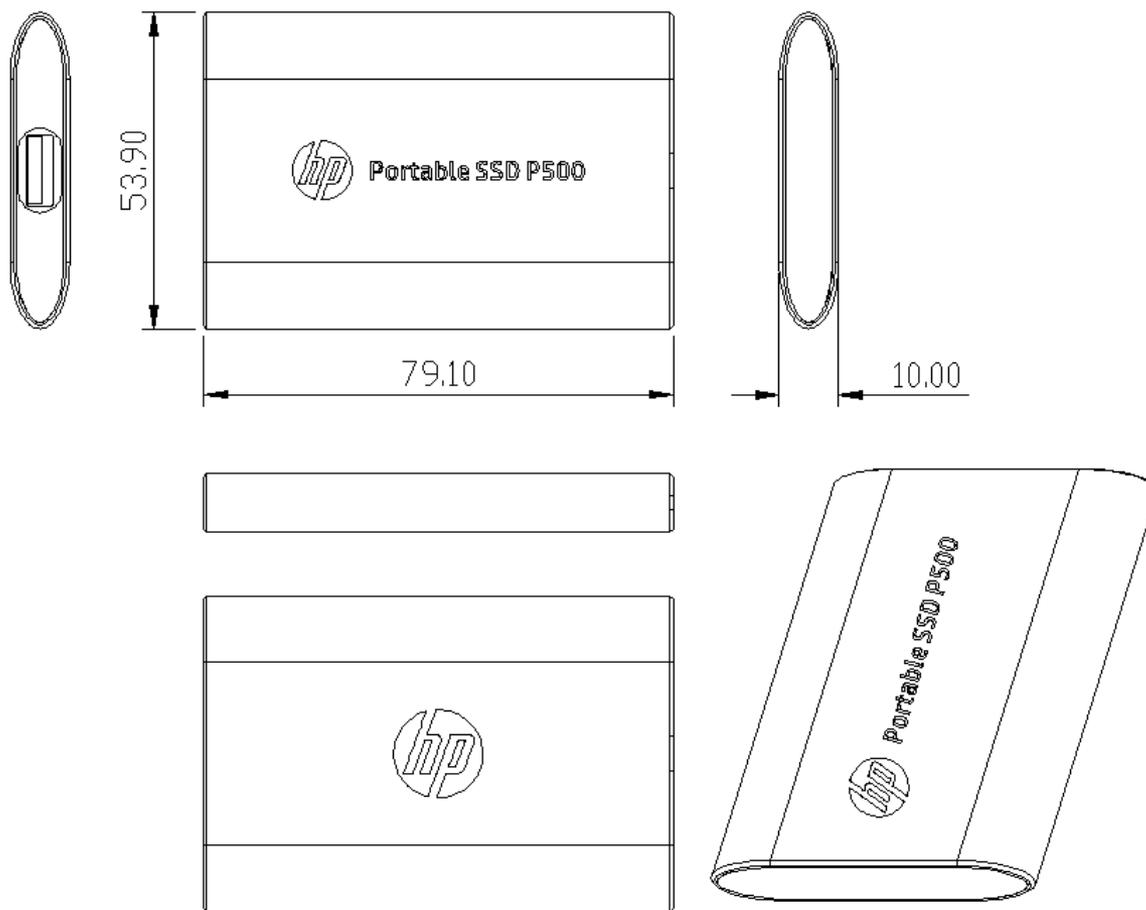
Item	120GB	250GB	500GB
Total byte written (Unit: TB)	70	100	300
Drive Writes Per Day (Unit: GB)	65	93	280
Warranty	3 Years		

Parameter	Value
Mean Time Between Failure (MTBF) Mean time between failures (MTBFs) for the P500 can be predicted based on the component reliability data using the methods referenced in the Telcordia SR-332 reliability prediction procedures for electronic equipment.	2,000,000 hours



7.0 Mechanical Information

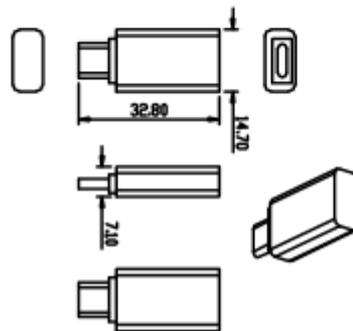
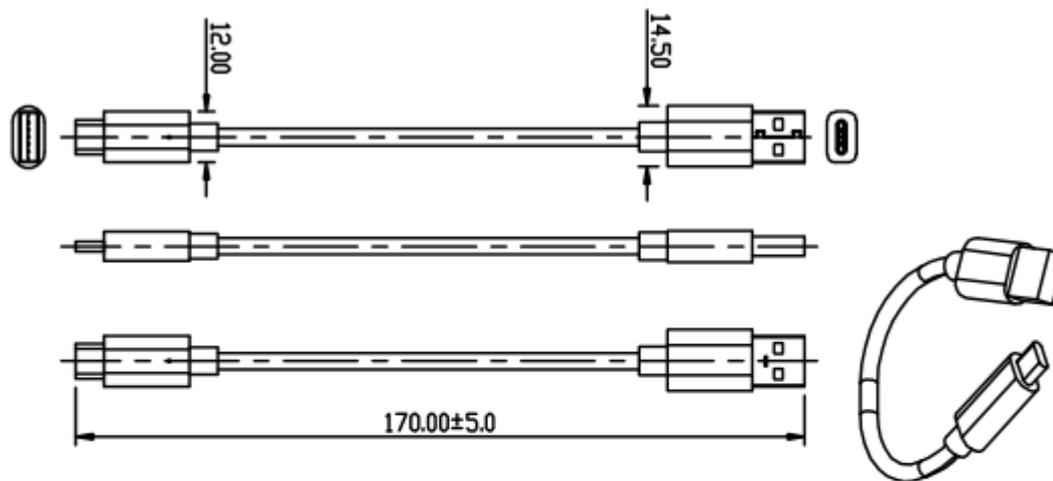
Dimension unit: mm





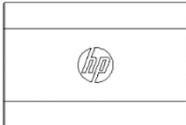
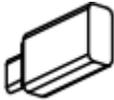
7.0 Mechanical Information

Dimension unit: mm





7.0 Mechanical Information

Item	Picture	Weight(g)
Main Device	 A small, rectangular, white device with a circular HP logo in the center.	45.4
USB Cable	 A long, thin, white USB cable with a standard USB-A connector on one end and a smaller connector on the other.	9.5
Connector	 A small, white, rectangular connector with a notch on one side.	5



8.0 Certifications and Declarations

Below table describes the Device Certifications supported by HP P500.

Certification	Description
CE Compliant	Indicates conformity with the essential health and safety requirements set out in European Directives Low Voltage Directive and EMC Directive.
UL Certified	Underwriters Laboratories, Inc. Component Recognition UL60950-1.
RoHS Compliant	Restriction of Hazardous Substance Directive

9.0 Revision History

Date	Revision	Description
Dec 2018	V1.0	Initial release
Mar 2019	V2.0	Updating data
April 2019	V3.0	Updating the Capacity
May 2019	V4.0	Updating the HP PN