



# Product Datasheet

## 480GB Hot Plug Enterprise SSD 2.5in SATA Mixed Work Load



- **Product Code:** DELL-480EMLCMWL-S12
- **Product EAN:** 5056006106746
- **Warranty:** 5 Year Advanced

Origin Storage Ltd manufactures a full range of Matched Hard Drive & Solid State Solutions for Dell Poweredge, Optiplex and Latitude ranges, covering all their legacy systems right through to the latest modern day technology. Dell have been supplying their clients with Origin Matched Hard Solutions for the past decade as and when their own part is made EOL or stock is in constraint, this shows an unquestionable level of quality and service provided on every Origin Storage Matched Drive Solution. All of our Matched Drive Solutions come with up to 5 years advanced replacement warranty and also come with free pre and post sales technical support from our in house

engineers. We can supply replacements or upgrades in form factors 2.5" ,3.5", M.2, mSATA and AIC (PCIe)

## Technical Specifications

### Weight & Dimensions

<b>Height:</b>	7 mm
----------------	------

### Power

<b>Operating Voltage:</b>	5 V
<b>Power Consumption (read):</b>	2.3 W
<b>Power Consumption (write):</b>	2.8 W
<b>Power Consumption (average):</b>	2.8 W
<b>Power Consumption (idle):</b>	1.3 W

### Operational Conditions

<b>Operating Temperature (T-T):</b>	0 - 70 °C
<b>Storage Temperature (T-T):</b>	-40 - 85 °C
<b>Operating Vibration:</b>	20 G
<b>Non-operating Vibration:</b>	20 G
<b>Operating Shock:</b>	1500 G
<b>Non-operating Shock:</b>	1500 G

### Packaging Data

<b>Storage Drive Adapter Included:</b>	Yes
<b>Downloadable Software:</b>	Samsung SSD DC Toolkit

### Other Features

<b>Internal:</b>	Yes
<b>Compliance Certificates:</b>	RoHS
<b>Compatible Products:</b>	Dell Server

## Features

<b>SSD Capacity:</b>	480 GB
<b>SSD Form Factor:</b>	2.5"
<b>Interface:</b>	Serial ATA
<b>NVMe:</b>	No
<b>Memory Type:</b>	eMLC
<b>Component For:</b>	Server/workstation
<b>Hardware Encryption:</b>	No
<b>NAND Flash Type:</b>	MLC (Multi Level Cell)
<b>Security Algorithms:</b>	256-bit AES
<b>Data Transfer Rate:</b>	6 Gbit/s
<b>Read Speed:</b>	520 MB/s
<b>Write Speed:</b>	500 MB/s
<b>Random Read (4KB):</b>	95000 IOPS
<b>Random Write (4KB):</b>	19000 IOPS
<b>Access Time:</b>	0.1 ms
<b>Read Latency:</b>	110 $\mu$ s
<b>Write Latency:</b>	110 $\mu$ s
<b>S.M.A.R.T. Support:</b>	Yes
<b>TRIM Support:</b>	Yes
<b>Hot-swap:</b>	Yes
<b>Mean Time Between Failures (MTBF):</b>	2000000 h

---

**Active Garbage Collection:** Yes

**Windows Operating Systems Supported:** Yes

**Linux Operating Systems Supported:** Yes

---

## Logistics Data

---

**Harmonized System (HS) Code:** 84717070

## Origin Storage Limited

2-4 Rutherford Centre, Rutherford Road, Basingstoke, Hampshire, RG24 8PB UK

**Tel:** [+44 \(0\)1256 351500](tel:+44(0)1256351500) | **E-Mail:** [sales@originstorage.com](mailto:sales@originstorage.com) | **Web:** [www.originstorage.com](http://www.originstorage.com)

Copyright 2025 - Origin Storage Limited | All trademarks are the property of their respective owners, E&OE.