

**Brief Specification  
Mobile HDD (1.8-type)**

MK6024GAL

ITEM	MK6024GAL
<b>Basic specification</b>	
Interface	ATA-3 / ATA-4 / ATA-5 / ATA-6 / ATA-7
Interface speed	100MB/s
Formatted Capacity	60GB
Number of data heads	2
Number of disks	1
Number of User data cylinders	79560
Bytes per sector (HOST)	512
Bytes per sector (DISK)	1024
Logical Blocks (LBA)	117210240
Maximum areal density	269.9Mbit/mm <sup>2</sup> (174.1Gbit/in <sup>2</sup> )
Environmental compliance	RoHS compliant
<b>Performance</b>	
Buffer size	2MB
Rotation speed	4,200rpm
Average Latency time	7.14 ms
Internal transfer rate	180.1 to 385.6 Mb/s (typ.)
Average seek time	15ms
Track to track seek time	3ms
Max. seek time	26ms
<b>Reliability</b>	
Load/Unload	600,000 times
Error rate non-recoverable	1/10 <sup>13</sup> bit read
<b>Supply Voltage</b>	
Allowable Voltage	3.3 V ±5%
<b>Power consumption</b>	
Start	1.8W (max.)
Seek	1.1W (typ.)
Read/Write	1.0W (typ.)
Low power Idle	0.3W (typ.)
Stand-by	0.12W (typ.)
Sleep	0.07W (typ.)
Energy Consumption Efficiency	0.0050
/Category name	K
<b>Dimension</b>	
Height	5.0mm
Width	54.0mm
Depth	71mm
Weight	48g (max.)
<b>Temperature</b>	
Operating	5 to 60°C
Non-Operating	-20 to 65°C
Shipping	-40 to 70°C
<b>Vibration/Shock</b>	
Vibration (op)	19.6m/s <sup>2</sup> (2.0G)
Vibration (non-op)	49m/s <sup>2</sup> (5.0G)
Shock (op)	4,900m/s <sup>2</sup> (500G) (2ms half sine)
Shock (non-op)	14,700m/s <sup>2</sup> (1500G) (1ms half sine)
<b>Acoustics</b>	
Idle (ave.)	14dB
Seek (ave.)	20dB

\*Energy Consumption Efficiency: Energy consumption efficiency is calculated based on power consumption divided by formatted capacity, as defined by Japanese law.

\*Definition of Capacity: TOSHIBA defines a megabyte (MB) as 1,000,000bytes, and a gigabyte (GB) as 1,000,000,000 bytes.