


Half Slim

SHE1B



GENERAL INFORMATION

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| TYPE | Half Slim | |
| INTERFACE | Serial ATA Revision 3.1 | |
| DATA TRANSFER MODE | SATA 1.5Gbps, 3.0Gbps, 6.0Gbps | |
| CONNECTOR | 15 + 7 pin Serial ATA | |
| OUTLINE DIMENSIONS | 54 x 39 mm | |
| SERIES | SHE1B | |
| CONTROLLER TYPE |  TDK GBDriver GS1 | |
| FLASH TYPE | SLC | pSLC/MLC |
| DENSITY RANGE | 16 GB - 128 GB | pSLC:16GB-256GB MLC:32GB-512GB |
| DATA RETENTION | 10 years @ life begin-10% 1 year @ life end | |
| ENDURANCE ENTERPRISE WL | 100,000 P/E Cycles *Flash Block Level | pSLC:20,000P/ECycles MLC:3,000P/ECycles *Flash Block Level |

TEMPERATURE

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|-----------------------|--|
| OPERATING TEMPERATURE | Commercial: 0°C to +70°C Industrial: -40°C to +85°C |
| STORAGE TEMPERATURE | Commercial: -25°C to +85°C Industrial: -40°C to +85°C |

PERFORMANCE

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|--------------|---------------|---|
| Read (max.) | 340 MByte/sec | pSLC:400 MByte/sec MLC:320 MByte/sec |
| Write (max.) | 115 MByte/sec | pSLC:165 MByte/sec MLC:75 MByte/sec |

ROBUSTNESS

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|-----------|--------------------------------|
| MTBF | ≥ 2,000,000 hours |
| SHOCK | 1500G,0.5ms |
| VIBRATION | 20G,10-2000Hz |
| HUMIDITY | 0 to 90 % RH (No condensation) |

ELECTRICAL DATA

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|-------------------|---|
| VOLTAGE | 5 V ± 10 % |
| POWER CONSUMPTION | <ul style="list-style-type: none"> - Read: 250mA max. - Write: 270mA max. - Slumber: less than 100mA |

FEATURE LIST

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|------------------|---|
| FEATURES & TOOLS | <ul style="list-style-type: none"> - In-House Designed Controller (HW/FW) <ul style="list-style-type: none"> - Power Fail Data Safety - Power Back-up Circuit - Global static wear leveling <ul style="list-style-type: none"> - SMART - NCQ, TRIM - AES 128/256bit encryption |
| PART NUMBER | SHE1BxxxxTXDxB00SSA0 |