

Hardware Specifications

You can enjoy and utilize the L7000 Series Notebook more effectively with a better comprehension of detailed hardware specifications of the notebook.

This chapter lists the detailed specifications of the notebook's main system and modules. Please refer to this section when you need to find out specific technical data about the notebook.

This chapter contains the following information:

- Main System General Specifications
- System I/O Specifications
- Module Specifications

GENERAL

SPEC

Processor	Intel Pentium® processor with MMX™ Technology and Pentium II® Mobile Modules (IMM) Speeds at 200/233/266/300 MHz
Cache	32KB internal cache and 512KB pipelined burst L2 cache
BIOS	Phoenix 256KB Flash EPROM, PMU, Plug & Play
Chipset	Intel 430TX or Intel 440BX (Pentium II)
Main Memory	32MB onboard One SODIMM socket for expansion up to 160MB
Display	13.3" active matrix TFT, XGA 1024 x 768, 64K colors or 12.1" TFT, SVGA 800 x 600, 64K colors
Graphics & Video Module	4MB SGRAM video memory (2MB for 12.1") Supports LCD and external CRT display modes VGA 640 x 480, 256/64K/16.7M colors SVGA 800 x 600, 256/64K/16.7M colors XGA 1024 x 768, 256/64K colors
PC Cards	PCMCIA 2.1 compliance, supports one Type III or two Type II cards 32-bit PC CardBus architecture and Zoomed Video™ supported
HDD	Removable 2.5" IDE HDD with Ultra DMA/33 support Capacity in 2GB/3GB/4GB/6GB
FDD	Built-in 3.5" 1.44MB FDD
IrDA	One port IrDA 1.1 compliance, FIR-4Mbps/SIR-115.2Mbps
Modem/FAX	Modem module (HSP) Video-conferencing I/F V.80 supported
CD-ROM	Built-in 5.25" ATAPI 24x CD-ROM
LED Status Indicator	Power status, battery charging, HDD access, Caps lock, Scroll Lock and Number lock
Pointing Device	Built-in TouchPad, 2 buttons
Interface	One 16550 UART-compatible serial port/D-sub 9-pin One EPP/ECP parallel port/D-sub 25-pin One PS/2 keyboard/mouse port One Infrared port Audio jacks for headphone/speaker-out, mic-in and line-in One VGA port/mini D-sub 15-pin for external DDC monitor One USB port
Keyboard	Desktop-like 19mm full-size 86-key keyboard with Win95 function keys (110mm x 285mm) 2.6mm travel with palm rest

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Audio	Built-in stereo sound, Sound Blaster® Pro compatible, with 3D sound effects Full duplex audio Built-in stereo speakers and microphone
Power Management	Full feature SMI power management, stand-by, suspend-to-disk and suspend-to-RAM APM 1.2 supported ACPI 1.0 supported
Battery	Li-ion 9 cells, 4500mAh, 48W Run-down life: 3.5/7hrs (approx.) Charging time: 3/5hrs (power off) Battery low beep warning
AC Adapter	Output: 19V DC, 2.4A, 45W (Typ.) Input: 100~240V AC 50/60Hz universal
Ventilation Solutions	Large-size aluminum heat sink plate with heat pipes Temperature-controlled cooling fan
Casing	Slim and lightweight durability
Dimensions	11.6" x 9.1" x 1.5" (294mm x 232mm x 38mm)
Weight	6.1lbs/2.8kg

Input and Output Specifications

IDE Controller	Intel PIIX4E South Bridge FW82371EB chipset <ul style="list-style-type: none"> ➤ Independent timing of up to 4 drives ➤ PIO mode 4 and Bus master IDE transfers up to 14MB/sec ➤ Supports Ultra DMA/33 synchronous DMA Mode transfer up to 33MB/sec ➤ Integrated 16 x 32-bit buffer for IDE PCI burst transfer ➤ Supports glue-less “swap-bay” option with full electrical isolation ➤ Two 82C37 DMA controllers ➤ Supports PCI DMA with 3 PC/PCI channels and distributed DMA protocols (simultaneously) ➤ Fast type-F DMA for reduced PCI bus usage
USB	Intel PIIX4E South Bridge FW82371EB chipset <ul style="list-style-type: none"> ➤ One USB 1.0 port, transfer speed at 12 or 1.5Mbit/sec ➤ Supports legacy keyboard and mouse software with USB-based keyboard and mouse ➤ Supports UHCI Design Guide
Floppy Drive Controller	Winbond W83877ATF Super I/O chip <ul style="list-style-type: none"> ➤ Supports 3-mode FDD and tape drives ➤ 16-byte data FIFOs ➤ DMA enable logic ➤ Detects all overrun and underrun conditions ➤ Built-in address mark detection circuit ➤ FDD anti-virus functions with software write protect and FDD write enable signal ➤ Completely compatible with industry standard 82077 ➤ Supports vertical recording format ➤ 360K/720K/1.2M/1.44M/2.88M format ➤ 250K/300K/500K/1M/2Mbps data transfer rate ➤ Plug and Play 1.0A compliant ➤ Supports 8 IRQs (ISA) or 15 IRQs (serial IRQ), 4 DMA channels and 480 relocatable addresses ➤ PC'97 compliant ➤ DPM, ACPI supported ➤ Single 24M or 48MHz crystal input
Serial Port	Winbond W83877ATF Super I/O chip <ul style="list-style-type: none"> ➤ Two high-speed 16550 compatible UARTs with 16-byte send/receive FIFOs ➤ MIDI compatible ➤ Fully programmable serial-interface characteristics: 5, 6, 7 or 8-bit characters; even, odd or no parity generation/detection; 1, 1.5 or 2

	<p>stop bits generation</p> <ul style="list-style-type: none"> ➤ Internal diagnostic capabilities: loop-back controls; break, parity, overrun, framing error simulation ➤ Programmable baud generator allows division of 1.8461MHz and 24MHz by 1 to $(2^{16}-1)$ ➤ Maximum baud rate up to 921Kbps for 14.768 MHz and 1.5Mbps for 24MHz ➤ Plug and Play 1.0A compliant ➤ Supports 8 IRQs (ISA) or 15 IRQs (serial IRQ), 4 DMA channels and 480 relocatable addresses ➤ PC'97 compliant ➤ DPM, ACPI supported ➤ Single 24M or 48MHz crystal input
Infrared Port	<p>Winbond W83877ATF Super I/O chip</p> <ul style="list-style-type: none"> ➤ Supports IrDA version 1.0 SIR protocol, up to 115.2Kbps ➤ Supports SHARP ASK-IR protocol, up to 57,600bps ➤ Supports IrDA version 1.1 MIR up to 1.152Mbps and FIR up to 4Mbps, single DMA channel, 32-byte data FIFO and 8-byte status FIFO ➤ Supports auto-config SIR and FIR ➤ Supports full Customer IR ➤ Plug and Play 1.0A compliant ➤ Supports 8 IRQs (ISA) or 15 IRQs (serial IRQ), 4 DMA channels and 480 relocatable addresses ➤ PC'97 compliant ➤ DPM, ACPI supported ➤ Single 24M or 48MHz crystal input
Parallel Port	<p>Winbond W83877ATF Super I/O chip</p> <ul style="list-style-type: none"> ➤ Supports PS/2 compatible bi-directional parallel port ➤ Supports EPP/IEEE 1284 ➤ Supports ECP/IEEE 1284 ➤ Extension FDD mode supports disk drive B and extension 2FDD mode supports disk drives A and B through parallel port ➤ Enhanced printer port back-drive current protection ➤ Plug and Play 1.0A compliant ➤ Supports 8 IRQs (ISA) or 15 IRQs (serial IRQ), 4 DMA channels and 480 relocatable addresses ➤ PC'97 compliant ➤ DPM, ACPI supported ➤ Single 24M or 48MHz crystal input
Video System	<p>Silicon Motion Lynx SM910G</p> <ul style="list-style-type: none"> ➤ PC'97 compliant ➤ ACPI supported ➤ DualApp function for desktop application

	<ul style="list-style-type: none"> ➤ DualView function for dual display ➤ Simultaneous display function ➤ Virtual Refresh™ Architecture ➤ Concurrent video processor ➤ Zoomed Video™ port and video capture ➤ 64-bit drawing engine ➤ DirectDraw H/W acceleration ➤ Direct3D H/W rendering acceleration ➤ 2/4MB SGRAM, 64-bit DRAM interface ➤ 135MHz, 3.3V integrated 24-bit RAMDAC ➤ VGA 640 x 480, 256/64K/16.7M colors ➤ SVGA 800 x 600, 256/64K/16.7M colors ➤ XGA 1024 x 768, 256/64K colors ➤ Virtual display 1280 x 860, 256 colors
Audio System	Yamaha YMF715E-S chip <ul style="list-style-type: none"> ➤ Built-in OPL3 (FM-synthesizer) ➤ Sound Blaster game compatible ➤ Windows Sound System compatible ➤ Plug & Play ISA 1.0a compatible ➤ Full duplex operation ➤ Built-in 3D enhanced controller ➤ Hardware and software master volume control ➤ Supports monaural input ➤ 24mA TTL bus drive capability ➤ Power management supports
PCMCIA	Ricoh RL5C476A PCI-CardBus Bridge <ul style="list-style-type: none"> ➤ Two PC Card 95 compliant sockets supporting 32-bit CardBus (Card-32) and 16-bit PC Card (Card-16) ➤ PC Card 95/PCMCIA2.1/JEIDA4.2/ExCA/ CardBus/Yenta2.2 compliant & PCI 2.1 compliant ➤ Register compatible with Intel 82365SL for backward compatibility ➤ Hot insertion/removal without external buffers ➤ PC'97 compliant ➤ Zoomed Video™ Port supported

MODULE SPEC

Module Specifications

The following section contains the detailed hardware specifications of the L7000's individual modules, including different hard drives, CD-ROM drive, DVD drive, LCD panels, floppy drive, AC adapter and battery pack.

HDD SPEC

Hard Disk Drives

Fujitsu MHD2021AT

Configuration	
Formatted Capacity	2.16 GB
Interface	Enhanced IDE/ATA-3/Ultra DMA
Sector Size	512 bytes
Track Capacity (formatted)	71,680 ~ 122,880 bytes
Tracks Per Cylinder	4
Cylinders	7,289
Disks/Heads	2/3
Recording Density	191,000 BPI
Track Density	11,960 TPI
Interface	ATA-3
Performance	
Data Buffer	512 KB
Rotational Speed	4,000 RPM
Average Latency	7.5 ms
Media Transfer Rate	5.9 ~ 10.1 MB/sec
Interface Transfer Rate	33.3 MB/sec, Ultra DMA Mode-2 16.6 MB/sec, PIO Mode-4
Seek Time	
Average	2.5 ms
Track-to-Track	13 ms
Full Track	23 ms
Recording Code	EPR4ML
Power Requirement	+5VDC (5%)
Spin-up	0.9 Amps
Operating	2.4 Watts
Idle	0.91 Watts
Standby	0.35 Amps
Sleep	0.13 Watts
Physical Size	9.5(H) x 70(W) x 100(D) mm
Weight	95 g
Environmental Characteristics	

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Temperature (Operating)	5° ~ 55°C
Temperature (Non-Operating)	-40° ~ 65°C
Relative Humidity (Operating)	8% ~ 90%
Relative Humidity (Non-Op)	5% ~ 95%
Shock (Operating)	100G/2ms
Shock (Non-Operating)	500G/2ms
Vibration (Operating)	1.0G
Vibration (Non-Operating)	5.0G
MTBF	More than 300,000 power on hours

IBM DKLA-23240

Configuration	
Formatted Capacity	3.24GB
Interface	ATA-4
Sector Size	512 bytes
Recording Zones	8
User Cylinders	9,280
Data Heads	3
Disks	2
Areal Density (Maximum)	4.1 Gbits/in ²
Recording Density (Maximum)	256.4 KBPI
Track Density	16,000 TPI
Performance	
Data Buffer	512 KB
Rotational Speed	4,200 RPM
Average Latency	7.1 ms
Media Transfer Rate	61.5 (inner), 102.6 (outer) Mbits/sec
Interface Transfer Rate	33.3 MB/sec, Ultra DMA Mode-2 16.6 MB/sec, PIO Mode-4
Seek Time	
Average	13 ms
Track-to-Track	4 ms
Full Track	23 ms
Reliability	
Error Rate (Non-Recoverable)	<= 1.0E13 bits transferred
Load/Unload Cycles	300,000
Power Requirements	
Startup (Max. Peak)	4.7 Watts
Seek (Avg.)	2.3 Watts
Read (Avg.)	2.0 Watts
Write (Avg.)	2.1 Watts
Performance Idle (Avg.)	1.85 Watts

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Active Idle (Avg.)	0.85 Watts
Low Power Idle (Avg.)	0.65 Watts
Standby (Avg.)	0.3 Watts
Sleep	0.1 Watts
Power Consumption	0.0002 Watts/MB
Physical Size	9.5(H) x 70(W) x 100(D) mm
Weight	99 g
Environmental Characteristics	
Temperature (Operating)	5° ~ 55°C
Temperature (Non-Operating)	-40° ~ 65°C
Relative Humidity (Operating)	8% ~ 90%
Relative Humidity (Non-Op)	5% ~ 95%
Shock (Operating)	150G/2ms
Shock (Non-Operating)	700G/1ms
Vibration (Operating)	0.67G (5~500Hz)
Vibration (Non-Operating)	3.01G (5~500Hz)

IBM DKLA-24320

Configuration	
Formatted Capacity	4.32GB
Interface	ATA-4
Sector Size	512 bytes
Recording Zones	8
User Cylinders	9,280
Data Heads	4
Disks	2
Areal Density (Maximum)	4.1 Gbits/in ²
Recording Density (Maximum)	256.4 KBPI
Track Density	16,000 TPI
Performance	
Data Buffer	512 KB
Rotational Speed	4,200 RPM
Average Latency	7.1 ms
Media Transfer Rate	61.5 (inner), 102.6 (outer) Mbits/sec
Interface Transfer Rate	33.3 MB/sec, Ultra DMA Mode-2 16.6 MB/sec, PIO Mode-4
Seek Time	
Average	13 ms
Track-to-Track	4 ms
Full Track	23 ms
Reliability	

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Error Rate (Non-Recoverable)	<= 1.0E13 bits transferred
Load/Unload Cycles	300,000
Power Requirements	+5VDC (+/-5%)
Startup (Max. Peak)	4.7 Watts
Seek (Avg.)	2.3 Watts
Read (Avg.)	2.0 Watts
Write (Avg.)	2.1 Watts
Performance Idle (Avg.)	1.85 Watts
Active Idle (Avg.)	0.85 Watts
Low Power Idle (Avg.)	0.65 Watts
Standby (Avg.)	0.3 Watts
Sleep	0.1 Watts
Power Consumption	0.0002 Watts/MB
Physical Size	9.5(H) x 70(W) x 100(D) mm
Weight	99 g
Environmental Characteristics	
Temperature (Operating)	5° ~ 55°C
Temperature (Non-Operating)	-40° ~ 65°C
Relative Humidity (Operating)	8% ~ 90%
Relative Humidity (Non-Op)	5% ~ 95%
Shock (Operating)	150G/2ms
Shock (Non-Operating)	700G/1ms
Vibration (Operating)	0.67G (5~500Hz)
Vibration (Non-Operating)	3.01G (5~500Hz)

IBM DADA-264800

Configuration	
Formatted Capacity	6.48GB
Interface	ATA-4
Sector Size	512 bytes
Recording Zones	8
User Cylinders	9,280
Data Heads	6
Disks	3
Areal Density (Maximum)	4.1 Gbits/in ²
Recording Density (Maximum)	256.4 KBPI
Track Density	16,000 TPI
Performance	
Data Buffer	512 KB
Rotational Speed	4,200 RPM
Average Latency	7.1 ms
Media Transfer Rate	61.5 (inner), 102.6 (outer) Mbits/sec

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Interface Transfer Rate	33.3 MB/sec, Ultra DMA Mode-2 16.6 MB/sec, PIO Mode-4
Seek Time	
Average	12 ms
Track-to-Track	4 ms
Full Track	23 ms
Reliability	
Error Rate (Non-Recoverable)	<= 1.0E13 bits transferred
Load/Unload Cycles	300,000
Power Requirements	+5VDC (+/-5%)
Startup (Max. Peak)	4.7 Watts
Seek (Avg.)	2.3 Watts
Read (Avg.)	2.1 Watts
Write (Avg.)	2.2 Watts
Performance Idle (Avg.)	1.85 Watts
Active Idle (Avg.)	0.95 Watts
Low Power Idle (Avg.)	0.65 Watts
Standby (Avg.)	0.3 Watts
Sleep	0.1 Watts
Power Consumption	0.0001 Watts/MB
Physical Size	12.5(H) x 70(W) x 100(D) mm
Weight	140 g
Environmental Characteristics	
Temperature (Operating)	5° ~ 55°C
Temperature (Non-Operating)	-40° ~ 65°C
Relative Humidity (Operating)	8% ~ 90%
Relative Humidity (Non-Op)	5% ~ 95%
Shock (Operating)	125G/2ms
Shock (Non-Operating)	600G/2ms
Vibration (Operating)	0.67G (5~500Hz)
Vibration (Non-Operating)	3.01G (5~500Hz)

Hitachi DK226A-32U

Dimension	70(W) x 12.7(H) x 100(D) mm
Weight	150 g
Configuration	
Formatted Capacity	3,240 Mbyte
Default Logical Geometry (Cyl/Hd/Sec)	6,255 / 3 / 6
Bytes per sector	512
Interface	Enhanced IDE / ATA-3/Ultra DMA
Data Transfer Rate	

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Disk-Buffer	6.0 ~ 9.1 MB/s
Host-Buffer (PIO 4/ DMA 2)	16.6 MB/s Max.
Host-Buffer (UDMA 2)	33.3 MB/s Max.
Buffer Size	128 KB
Seek Time (Nominal Value)	
Average	12 ms
Maximum	24 ms
Minimum	3 ms
Rotational Speed	4,000 RPM
Average Latency	7.5 ms
Recording density	183 KBPI
Track density	11 KTPI
Recording method	EPRML, ID-Less format
MTBF	300,000 hours
Life	5 years or 20,000 hours (POH)
Relative Humidity	
Operational	5% ~ 90 %
Non-Operational	5% ~ 90 %
Ambient Temperature	
Operating	5° ~ 55 ° C
Non-operating	-40° ~ 70 ° C
Altitude	
Operating	3,000 m or less
Non-operating	12,000 m or less

CD-ROM Drives

TEAC CD-224E-A92

Disc Type	CD-DA, CD-ROM (Mode 1, Mode 2), CD-ROM XA Mode 2 (Form-1, Form-2), Multi-session Photo CD™, CD-I, Video CD, Enhanced CD & CD PLUS Compatible
Disc Diameter	12cm . 8cm
Disc Rotation Speed Full CAV	5,250 RPM (10.3x ~ 24x, 17x avg.)
Disc Ejection	Manual, software, emergency ejection
Loading Mechanism	Drawer
Formatted Capacity	650 MB (mode-1, 74 min.)
Block Per Disc	333,000 blocks (74 min.)
Total Playing Time	74 min. (Red Book Audio)
Interface	ATAPI
Data Buffer	128KB
Access Time	
Average Random Access Time	130 ms
Full Stroke Access Time	300 ms
Starting Time	12 sec. maximum
Data Transfer Rate	
Sustained	1,548KB/sec ~ 3,600KB/sec
Burst	16.7MB/sec (PIO mode 4/MultiWord DMA mode 2)
Environmental Characteristics	
Temperature (Operating)	5° ~ 55° C
Temperature (Non-Operating)	-20° ~ 60° C
Relative Humidity (Operating)	8% ~ 80% non-condensing
Relative Humidity (Non-Op)	5% ~ 95% non-condensing
Vibration (Operating)	0.15 G or less
Vibration (Non-Operating)	2 G or less
Shock (Operating)	5 G or less
Shock (Non-Operating)	60 G or less
Power Requirements	DC +5V +/-5% 20mA typ. (standby mode) 600mA typ. (sequential mode)
MTBF	60,000POH or more (10% duty)
Dimensions	128W x 12.7H x 130D mm
Weight	280g

Floppy Drive

Citizen W1DE-63BE

Dimensions	10.9H x 96.5W x 116.1D mm	
Weight	130g	
Power Requirements	4.5 ~ 5.5V, 1.1w reading, 0.015w standby	
Vibration	0.5G operational, 4.5G standby (5 ~ 500Hz)	
Eject Button	Ultra-slim, short-stroke – 3.5mm flush when ejected	
Interface	26-way, 1mm FFC, including data and power	
Diskette Size	3.5 inch	
Operation modes	2MB/1MB	
Track per Disk	160	
Track Density	5.3 Track/mm	
Track-to-Track Time	3 ms	
2 MB mode data capacity:		
Recording method:	FM	FMF
Data Transfer Rate (k bits/sec)	250	500
Data Capacity:		
Unformatted - k bytes/track	6.25	12.5
Unformatted - k bytes/disk	1000	2000
Formatted - 18 sectors/track	0.256	0.512
1 MB mode data capacity:		
Recording method:	FM	FMF
Data Transfer Rate (k bits/sec)	125	250
Data Capacity:		
Unformatted - k bytes/track	3.125	6.25
Unformatted - k bytes/disk	500	1000
Formatted - 16 sectors/track	0.128	0.256
Rotational Speed 1.2MB mode	300 rpm	
Start Time	500 ms	
Reliability:		
MTBF	20,000 hours (under typical usage)	
Design Component Life	30,000 or 5 years power on hours	

LCD Panels

Samsung LT133X5-122

Type of Display	Thin film transistor (TFT)
Optimum Viewing Angle	6 O'clock
Display Area	270.3mm(H) x 202.7mm(V)
Display Colors	262,144
Number of Pixels	1024 x 768 x RGB(XGA)
Pixel Arrangement	RGB vertical stripe
Pixel Pitch	0.264mm(H) x 0.264mm(V) typ.
Display Mode	Normally white
Surface Treatment	Haze 25, hard-coating 3H
Module Size	284mm(H) x 214mm(V) x 6.7mm(D)
Weight	550g
Temperature:	
Storage	-25° ~ 60° C
Operating	0° ~ 50° C
Shock (Non-operating)	100G
Vibration (Non-operating)	1.0G
Relative Humidity:	
Operating	20% ~ 95%
Storage	5% ~ 95%

ADI AA121SJ01

Type of Display	Thin film transistor (TFT)
Optimum Viewing Angle	6 O'clock
Display Area	246.0mm(H) x 184.5mm(V)
Display Colors	262,144
Number of Pixels	800 x 600
Pixel Arrangement	RGB vertical stripe
Pixel Pitch	0.3075mm(H) x 0.3075mm(V) typ.
Display Mode	Normally white
Module Size	275mm(H) x 199mm(V) x 5.5mm(D)
Weight	400g
Temperature:	
Storage	-20° ~ 60° C
Operating	0° ~ 50° C
Shock (Non-operating)	100G
Vibration (Non-operating)	1.0G
Relative Humidity:	
Operating	20% ~ 95%
Storage	5% ~ 95%

AC ADAPTER
SPEC

AC Adapter

DELTA ADP - 45GB REV:W

Input Voltage Range	90Vac ~ 264Vac, single phase
Input Frequency Range	47Hz ~ 63Hz
Max. Input AC Current	1.5A @ 90Vac, 0.7A @ 230Vac
In-Rush Current (Cold Start)	50A @ 115Vac, 100A @ 230Vac
Efficiency	83% min. @ 115Vac Input, full load
Output Voltage	19Vdc
Output Load Range	0 ~ 2.37A
Regulation	18.05V ~ 19.95V
Temperature:	
Operation	0 ~ 40° C
Storage	-30° C ~ 85° C
Relative Humidity:	
Operation	8% ~ 90%
Storage	5% ~ 95% non-condensing

 BATTERY
SPEC

Battery Pack

NEC MOLICEL Energy ICR-18650

Type	Rechargeable Lithium ion battery
Configuration	3-parallel, 3-serial
Nominal Voltage	11.1 V
Minimal Capacity	4500 mAH
Maximum Charge Voltage	12.7 V
Voltage at End of Discharge	9.0 V
Max. Continuous Charge Current	3.0 A
Max. Continuous Discharge Current	3.0 A
Temperature	
Operation in Standard Charging	0 ~ 45°C
Operation in Standard Discharging	-10° ~ 50°C
Storage (For Within 1 Year)	-20° ~ 60°C
Storage (For 3 Months)	45°C
Storage (For 1 Month)	60°C
Relative Humidity	
Operation in Standard Charging	45% ~ 85% RH
Operation in Quick Charging	45% ~ 85% RH
Operation in Standard Discharging	45% ~ 85% RH
Storage (For Within 1 Year)	45% ~ 85% RH
Storage (For 6 Months)	45% ~ 85% RH
Storage (For 1 Month)	45% ~ 85% RH
Storage (For 1 Week)	45% ~ 85% RH

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