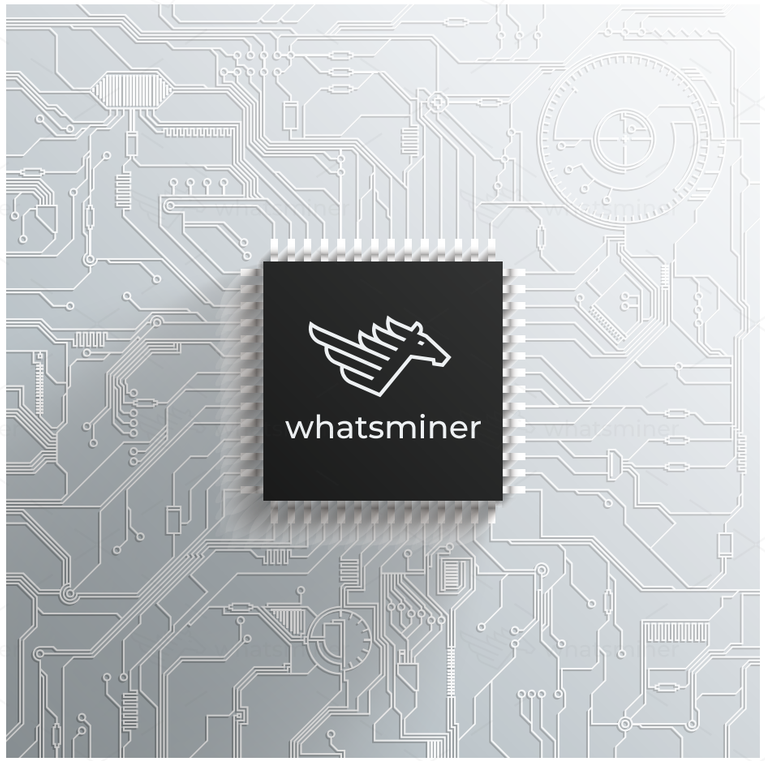
whatsminer

WHATSMINER

Product Manual



CATALOG

M30 SERIES

M50 SERIES

WHATSMINER M30S++

Air Cooling

SPECIFICATION

Hashrate	100~112T ± 5%	Size	430mm*155mm*226mm
Power Ratio	31J/T ± 5% @25° C	Weight	11.7KG
Power On Wall	3100~3472W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light: Working normally Green and Red Lights Alternately Flashing: Alarm status and need to find the response error code
Safety Guidelines	1. Please check if there is any obvious physical failure before power on, beware of electric shock 2. The product must be kept away from water sources and must not be operated in a humid environment 3. It requires professionals to carry out daily maintenance on the product 4. It is forbidden to directly touch the product by hand when power is on 5. Please use the stable voltage 6. The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M30S+

Air Cooling

SPECIFICATION

Hashrate	100T ± 5%	Size	430mm*155mm*226mm
Power Ratio	34J/T ± 5% @25° C	Weight	11.7KG
Power On Wall	3400W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light： Working normally Green and Red Lights Alternately Flashing： Alarm status and need to find the response error code
Safety Guidelines	1. Please check if there is any obvious physical failure before power on, beware of electric shock 2. The product must be kept away from water sources and must not be operated in a humid environment 3. It requires professionals to carry out daily maintenance on the product 4. It is forbidden to directly touch the product by hand when power is on 5. Please use the stable voltage 6. The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M30S

Air Cooling

SPECIFICATION

Hashrate	88T ± 5%	Size	430mm*155mm*226mm
Power Ratio	38J/T ± 5% @25° C	Weight	11.7KG
Power On Wall	3344W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light: Working normally Green and Red Lights Alternately Flashing: Alarm status and need to find the response error code
Safety Guidelines	1. Please check if there is any obvious physical failure before power on, beware of electric shock 2. The product must be kept away from water sources and must not be operated in a humid environment 3. It requires professionals to carry out daily maintenance on the product 4. It is forbidden to directly touch the product by hand when power is on 5. Please use the stable voltage 6. The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M31S+

Air Cooling

SPECIFICATION

Hashrate	80T ± 5%	Size	430mm*155mm*226mm
Power Ratio	42J/T ± 5% @25° C	Weight	11.7KG
Power On Wall	3360W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light： Working normally Green and Red Lights Alternately Flashing： Alarm status and need to find the response error code
Safety Guidelines	1. Please check if there is any obvious physical failure before power on, beware of electric shock 2. The product must be kept away from water sources and must not be operated in a humid environment 3. It requires professionals to carry out daily maintenance on the product 4. It is forbidden to directly touch the product by hand when power is on 5. Please use the stable voltage 6. The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M31S

Air Cooling

SPECIFICATION

Hashrate	72T ± 5%	Size	430mm*155mm*226mm
Power Ratio	46J/T ± 5% @25° C	Weight	11.7KG
Power On Wall	3312W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light: Working normally Green and Red Lights Alternately Flashing: Alarm status and need to find the response error code
Safety Guidelines	1. Please check if there is any obvious physical failure before power on, beware of electric shock 2. The product must be kept away from water sources and must not be operated in a humid environment 3. It requires professionals to carry out daily maintenance on the product 4. It is forbidden to directly touch the product by hand when power is on 5. Please use the stable voltage 6. The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M33S++

Hydro Cooling

SPECIFICATION

Hashrate	218~240T ±10%
Power Ratio	31J/T ± 5%
PSU	AC380~480V, 3W+ ground, input 10kw
Size	86mm*482.6mm*663mm with handle
Weight	Net weight: 27.5kg Weight with packaging materials: 30kg
Coolant demand per machine	About 1L
Power Cable Model	Custom made , ⩾16A
Internet Connections	Ethernet

ENVIRONMENTAL PARAMETERS

Liquid temperature	☐ Working temperature (inlet): 20℃~50℃@normal mode 20℃~40℃@high performance mode; ☐ Inlet temperature control accuracy ± 2℃ ☐ Storage and transportation temperature: -40~70℃ Note: please empty the liquid in the equipment during storage and transportation.
Liquid flow	☐ Limited Data：⩾10L/min ☐ Flow control accuracy ± 10% Remarks: 10L/min corresponds to the temperature difference between inlet and outlet water close to 10℃@normal mode, 14℃@high performance mode

Liquid pressure	⩽350kpa Remarks: when the pressure is more than 350kpa, the water-cooled plate will be deformed and cause the risk of coolant
Liquid medium	First-level deionized water: meet the requirements of the national standard GB/T 6682-2008 first-level deionized water Notice: 1) If the water conductivity is ⩾100us/cm, the medium must be replaced; 2) The water conductivity is less than 5us/cm when the system is running for the first time.
Liquid PH	Control range: 6~8
Liquid medium circulation system(Machine side)	☐ Anti-rust and anti-corrosion of pipeline; ☐ The particle diameter of the liquid medium is ⩽53 microns, that is, the circulation system is equipped with a 270 mesh filter; ☐ Before connecting the cabinet to the heat dissipation system, clean and filter the system pipeline with deionized water to remove dust, welding slag and other impurities; ☐ The temperature resistance of system components is above 85°C; ☐ The circulatory system is recommended to be equipped with a UV lamp sterilization device to prevent the liquid from breeding bacteria and attenuate the heat dissipation capacity of the system; ☐ The system is equipped with a 4bar safety relief valve; ☐ The system is equipped with a constant pressure expansion tank. Note: when the temperature of the coolant rises after the miner is turned on the pressure will rise.
Humidity	☐ Working humidity: 5%RH~85%RH (non-condensing) ☐ Storage humidity: 5%RH~95%RH (non-condensing) ☐ Long-term storage humidity: 30%RH~69%RH (no condensation)

Remarks: The above liquid temperature and flow parameters are based on deionized water as the liquid medium. If the liquid medium uses antifreeze, the liquid temperature and flow parameters need to be calculated separately. Table 2 shows an example of 30% glycol antifreeze temperature and flow parameters.

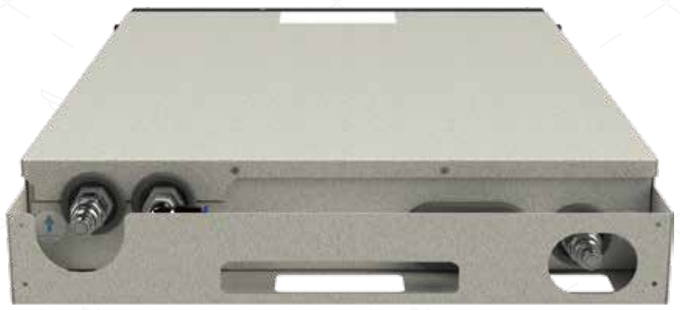
Table2 Example of temperature and flow parameters of 30% ethylene glycol antifreeze

Temperature	☐ Working temperature (inlet): 15℃~45℃@normal mode 15℃~35℃@high performance mode ☐ Inlet temperature control accuracy ± 2℃ ☐ Storage and transportation temperature: -40~70℃ Note: please empty the liquid in the equipment during storage and transportation.
Flow	☐ Limited Data：⩾11L/min ☐ Flow control accuracy± 10% Remarks: The temperature difference between the inlet and outlet liquids at this flow rate is close to 10℃@normal mode, 14℃@high-performance mode)

Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M33S+

Hydro Cooling



SPECIFICATION

Hashrate	198~220T ± 10%
Power Ratio	34J/T ± 5%
PSU	AC380~480V, 3W+ ground, input 10kw
Size	86mm*482.6mm*663mm with handle
Weight	Net weight: 27.5kg Weight with packaging materials: 30kg
Coolant demand per machine	About 1L
Power Cable Model	Custom made, ⩾16A
Internet Connections	Ethernet

ENVIRONMENTAL PARAMETERS

Liquid temperature	☐ Working temperature (inlet): 20°C~50°C@normal mode 20°C~40°C@high performance mode; ☐ Inlet temperature control accuracy ± 2°C ☐ Storage and transportation temperature: -40~70°C Note: please empty the liquid in the equipment during storage and transportation.
Liquid flow	☐ Limited Data：⩾10L/min ☐ Flow control accuracy ± 10% Remarks: 10L/min corresponds to the temperature difference between inlet and outlet water close to 10°C@normal mode, 14°C @high performance mode

Liquid pressure	⩽350kpa Remarks: when the pressure is more than 350kpa, the water-cooled plate will be deformed and cause the risk of coolant leakage.
Liquid medium	First-level deionized water: meet the requirements of the national standard GB/T 6682-2008 first-level deionized water Notice: 1) If the water conductivity is ⩾100us/cm, the medium must be replaced; 2) The water conductivity is less than 5us/cm when the system is running for the first time.
Liquid PH	Control range: 6~8
Liquid medium circulation system(Machine side)	☐ Anti-rust and anti-corrosion of pipeline; ☐ The particle diameter of the liquid medium is ⩽53 microns, that is, the circulation system is equipped with a 270 mesh filter; ☐ Before connecting the cabinet to the heat dissipation system, clean and filter the system pipeline with deionized water to remove dust, welding slag and other impurities; ☐ The temperature resistance of system components is above 85℃; ☐ The circulatory system is recommended to be equipped with a UV lamp sterilization device to prevent the liquid from breeding bacteria and attenuate the heat dissipation capacity of the system; ☐ The system is equipped with a 4bar safety relief valve; ☐ The system is equipped with a constant pressure expansion tank. Note: when the temperature of the coolant rises after the miner is turned on the pressure will rise.
Humidity	☐ Working humidity: 5%RH~85%RH (non-condensing) ☐ Storage humidity: 5%RH~95%RH (non-condensing) ☐ Long-term storage humidity: 30%RH~69%RH (no condensation)

Remarks: The above liquid temperature and flow parameters are based on deionized water as the liquid medium. If the liquid medium uses antifreeze, the liquid temperature and flow parameters need to be calculated separately. Table 2 shows an example of 30% glycol antifreeze temperature and flow parameters.

Table2 Example of temperature and flow parameters of 30% ethylene glycol antifreeze

Temperature	☐ Working temperature (inlet): 15℃~45℃@normal mode 15℃~35℃@high performance mode ☐ Inlet temperature control accuracy ± 2℃ ☐ Storage and transportation temperature: -40~70℃ Note: please empty the liquid in the equipment during storage and transportation.
Flow	☐ Limited Data：⩾11L/min ☐ Flow control accuracy± 10% Remarks: The temperature difference between the inlet and outlet liquids at this flow rate is close to 10℃@normal mode, 14℃@high-performance mode)

Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M50S+

Air Cooling

SPECIFICATION

Hashrate	130~142T ± 5%	Size	430mm*155mm*226mm
Power Ratio	24J/T ± 5%@25° C	Weight	11.7KG
Power On Wall	3120~340W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light: Working normally Green and Red Lights Alternately Flashing: Alarm status and need to find the response error code
Safety Guidelines	Please check if there is any obvious physical failure before power on, beware of electric shock The product must be kept away from water sources and must not be operated in a humid environment It requires professionals to carry out daily maintenance on the product It is forbidden to directly touch the product by hand when power is on Please use the stable voltage The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M50S

Air Cooling

SPECIFICATION

Hashrate	120~130T ± 5%	Size	430mm*155mm*226mm
Power Ratio	26J/T ± 5%@25° C	Weight	11.7KG
Power On Wall	3120~3380W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light: Working normally Green and Red Lights Alternately Flashing: Alarm status and need to find the response error code
Safety Guidelines	1. Please check if there is any obvious physical failure before power on, beware of electric shock 2. The product must be kept away from water sources and must not be operated in a humid environment 3. It requires professionals to carry out daily maintenance on the product 4. It is forbidden to directly touch the product by hand when power is on 5. Please use the stable voltage 6. The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M50

Air Cooling

SPECIFICATION

Hashrate	110~120T ± 5%	Size	430mm*155mm*226mm
Power Ratio	29J/T ± 5%@25° C	Weight	11.7KG
Power On Wall	3190~3480W ± 10%	Internet Connections	Ethernet
Working Temperature	-5° C ~ 35° C	Power Cable Model	IEC C19, ⩾16A
Air flow	350CFM	PSU Model	P221B/P222B AC220V ~ 240V

Components	Power Supply, Fan, Control Board, Hash Board, Case
Flashing Light Introduction	Blinking Green Light: Working normally Green and Red Lights Alternately Flashing: Alarm status and need to find the response error code
Safety Guidelines	1. Please check if there is any obvious physical failure before power on, beware of electric shock 2. The product must be kept away from water sources and must not be operated in a humid environment 3. It requires professionals to carry out daily maintenance on the product 4. It is forbidden to directly touch the product by hand when power is on 5. Please use the stable voltage 6. The size of the air outlet: 143*218mm, refer to the relevant documents for the specific shape(website-support-download)
Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M53S

Hydro Cooling

SPECIFICATION

Hashrate	264~288T ± 10%
Power Ratio	26J/T ± 5%
PSU	AC380~480V, 3W+ ground, input 10kw
Size	86mm*482.6mm*663mm with handle
Weight	Net weight: 27.5kg Weight with packaging materials: 30kg
Coolant demand per machine	About 1L
Power Cable Model	Custom made, ⩾16A
Internet Connections	Ethernet

ENVIRONMENTAL PARAMETERS

Liquid temperature	☐ Working temperature (inlet): 20℃~50℃@normal mode 20℃~40℃@high performance mode; ☐ Inlet temperature control accuracy ± 2℃ ☐ Storage and transportation temperature: -40~70℃ Note: please empty the liquid in the equipment during storage and transportation.
Liquid flow	☐ Limited Data：⩾10L/min ☐ Flow control accuracy ± 10% Remarks: 10L/min corresponds to the temperature difference between inlet and outlet water close to 10℃@normal mode, 14℃@high performance mode

Liquid pressure	⩽350kpa Remarks: when the pressure is more than 350kpa, the water-cooled plate will be deformed and cause the risk of coolant leakage.
Liquid medium	First-level deionized water: meet the requirements of the national standard GB/T 6682-2008 first-level deionized water Notice: 1) If the water conductivity is ⩾100us/cm, the medium must be replaced; 2) The water conductivity is less than 5us/cm when the system is running for the first time.
Liquid PH	Control range: 6~8
Liquid medium circulation system(Machine side)	☐ Anti-rust and anti-corrosion of pipeline; ☐ The particle diameter of the liquid medium is ⩽53 microns, that is, the circulation system is equipped with a 270 mesh filter; ☐ Before connecting the cabinet to the heat dissipation system, clean and filter the system pipeline with deionized water to remove dust, welding slag and other impurities; ☐ The temperature resistance of system components is above 85℃; ☐ The circulatory system is recommended to be equipped with a UV lamp sterilization device to prevent the liquid from breeding bacteria and attenuate the heat dissipation capacity of the system; ☐ The system is equipped with a 4bar safety relief valve; ☐ The system is equipped with a constant pressure expansion tank. Note: when the temperature of the coolant rises after the miner is turned on the pressure will rise.
Humidity	☐ Working humidity: 5%RH~85%RH (non-condensing) ☐ Storage humidity: 5%RH~95%RH (non-condensing) ☐ Long-term storage humidity: 30%RH~69%RH (no condensation)

Remarks: The above liquid temperature and flow parameters are based on deionized water as the liquid medium. If the liquid medium uses antifreeze, the liquid temperature and flow parameters need to be calculated separately. Table 2 shows an example of 30% glycol antifreeze temperature and flow parameters.

Table2 Example of temperature and flow parameters of 30% ethylene glycol antifreeze

Temperature	☐ Working temperature (inlet): 15℃~45℃@normal mode 15℃~35℃@high performance mode ☐ Inlet temperature control accuracy ± 2℃ ☐ Storage and transportation temperature: -40~70℃ Note: please empty the liquid in the equipment during storage and transportation.
Flow	☐ Limited Data：⩾11L/min ☐ Flow control accuracy± 10% Remarks: The temperature difference between the inlet and outlet liquids at this flow rate is close to 10℃@normal mode, 14℃@high-performance mode)

Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

WHATSMINER M53

Hydro Cooling

SPECIFICATION

Hashrate	226~250T ± 10%
Power Ratio	29J/T ± 5%
PSU	AC380~480V, 3W+ ground, input 10kw
Size	86mm*482.6mm*663mm with handle
Weight	Net weight: 27.5kg Weight with packaging materials: 30kg
Coolant demand per machine	About 1L
Power Cable Model	Custom made, ⩾16A
Internet Connections	Ethernet

ENVIRONMENTAL PARAMETERS

Liquid temperature	☐ Working temperature (inlet): 20℃~50℃@normal mode 20℃~40℃@high performance mode; ☐ Inlet temperature control accuracy ± 2℃ ☐ Storage and transportation temperature: -40~70℃ Note: please empty the liquid in the equipment during storage and transportation.
Liquid flow	☐ Limited Data：⩾10L/min ☐ Flow control accuracy ± 10% Remarks: 10L/min corresponds to the temperature difference between inlet and outlet water close to 10℃@normal mode, 14℃@high performance mode

Liquid pressure	⩽350kpa Remarks: when the pressure is more than 350kpa, the water-cooled plate will be deformed and cause the risk of coolant leakage.
Liquid medium	First-level deionized water: meet the requirements of the national standard GB/T 6682-2008 first-level deionized water Notice: 1) If the water conductivity is ⩾100us/cm, the medium must be replaced; 2) The water conductivity is less than 5us/cm when the system is running for the first time.
Liquid PH	Control range: 6~8
Liquid medium circulation system(Machine side)	☐ Anti-rust and anti-corrosion of pipeline; ☐ The particle diameter of the liquid medium is ⩽53 microns, that is, the circulation system is equipped with a 270 mesh filter; ☐ Before connecting the cabinet to the heat dissipation system, clean and filter the system pipeline with deionized water to remove dust, welding slag and other impurities; ☐ The temperature resistance of system components is above 85℃; ☐ The circulatory system is recommended to be equipped with a UV lamp sterilization device to prevent the liquid from breeding bacteria and attenuate the heat dissipation capacity of the system; ☐ The system is equipped with a 4bar safety relief valve; ☐ The system is equipped with a constant pressure expansion tank. Note: when the temperature of the coolant rises after the miner is turned on the pressure will rise.
Humidity	☐ Working humidity: 5%RH~85%RH (non-condensing) ☐ Storage humidity: 5%RH~95%RH (non-condensing) ☐ Long-term storage humidity: 30%RH~69%RH (no condensation)

Remarks: The above liquid temperature and flow parameters are based on deionized water as the liquid medium. If the liquid medium uses antifreeze, the liquid temperature and flow parameters need to be calculated separately. Table 2 shows an example of 30% glycol antifreeze temperature and flow parameters.

Table2 Example of temperature and flow parameters of 30% ethylene glycol antifreeze

Temperature	☐ Working temperature (inlet): 15℃~45℃@normal mode 15℃~35℃@high performance mode ☐ Inlet temperature control accuracy ± 2℃ ☐ Storage and transportation temperature: -40~70℃ Note: please empty the liquid in the equipment during storage and transportation.
Flow	☐ Limited Data：⩾11L/min ☐ Flow control accuracy± 10% Remarks: The temperature difference between the inlet and outlet liquids at this flow rate is close to 10℃@normal mode, 14℃@high-performance mode)

Warranty Period	One year after leaving the factory
After-sales Contact Information	1. Email: Support@microbt.com 2. Telegram Group: @WhatsMiner Community

Shenzhen MicroBT Electronics Technology Co., Ltd.

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