WHATSMINER M6X Series Product Manual

December 2024

Shenzhen MicroBT Electronics Technology Co.,Ltd.

www.whatsminer.com

Content

WHATSMINER M66S++

Immersion Cooling

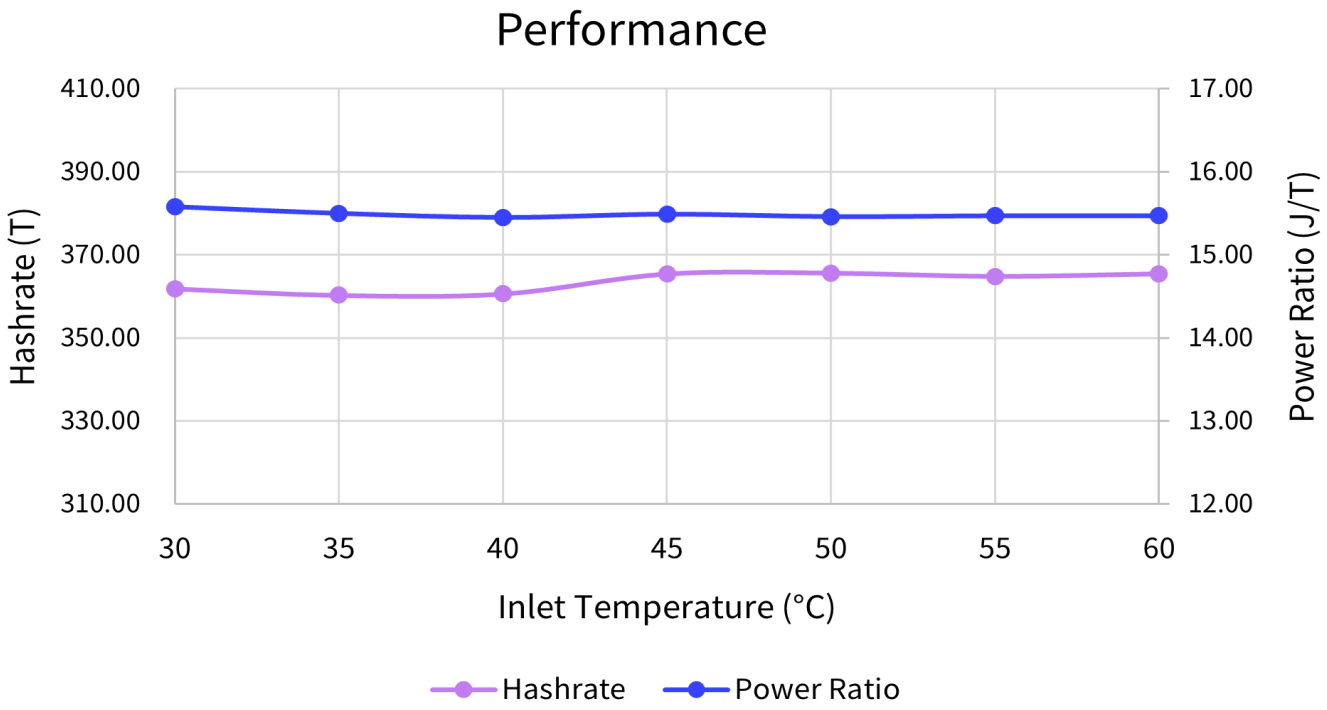
SPECIFICATION

Power Ratio	**15.5 J/T ± 5 %**	Hashrate	**314 T – 356 T ± 10 %**
Weight	**18 kg (Net)** **19 kg (Gross)**	Size with Handle	**267.5 mm × 147 mm × 401 mm**
Input Voltage	**AC 380 V – 480 V**	Power Cable Model	**Custom made, ⩾ 16 A**
Internet Connections	**Ethernet**	—	—

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 24 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Medium	**Special coolant: Insulating liquid (S5X/S3X)**
Humidity	① **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ② **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M66S+

Immersion Cooling

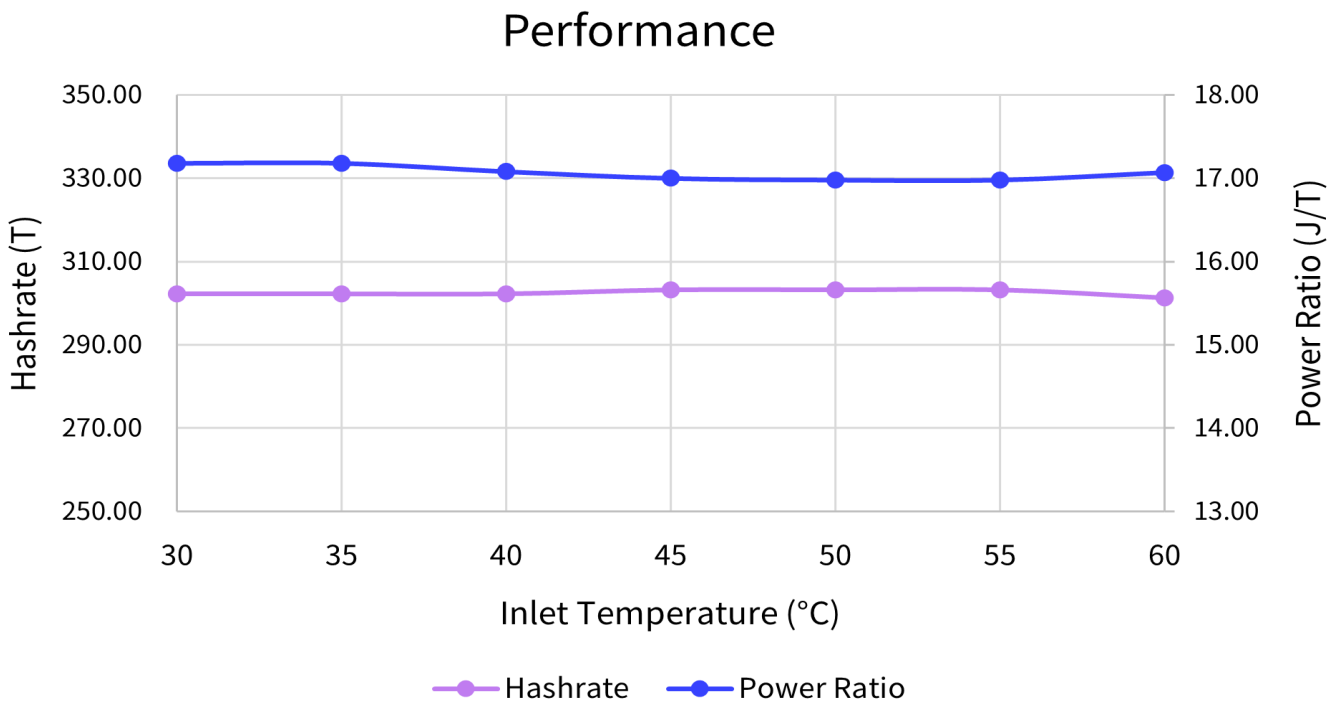
SPECIFICATION

Power Ratio	**17 J/T ± 5 %**	Hashrate	**280 T – 318 T ± 10 %**
Weight	**18 kg (Net)** **19 kg (Gross)**	Size with Handle	**267.5 mm × 147 mm × 401 mm**
Input Voltage	**AC 380 V – 480 V**	Power Cable Model	**Custom made, ⩾ 16 A**
Internet Connections	**Ethernet**	—	—

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 24 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Medium	**Special coolant: Insulating liquid (S5X/S3X)**
Humidity	① **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ② **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M66S

Immersion Cooling

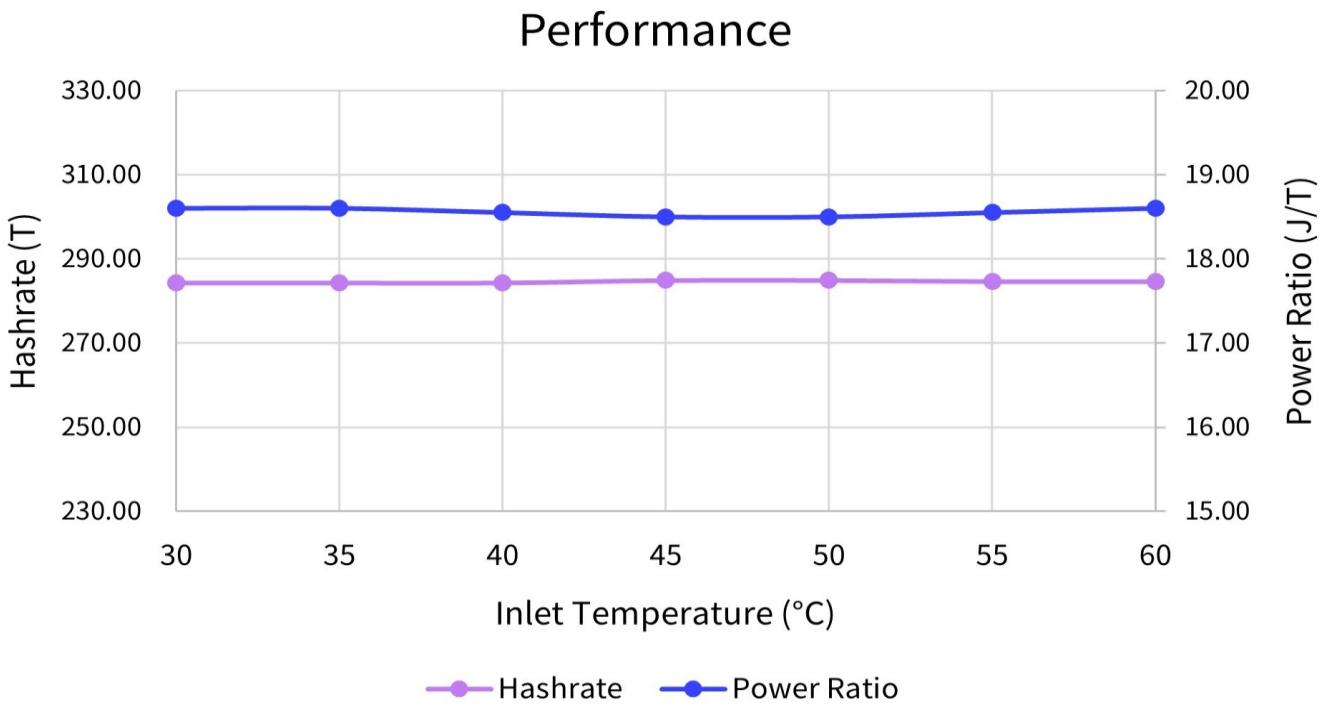
SPECIFICATION

Power Ratio	**18.5 J/T ± 5 %**	Hashrate	**270 T – 298 T ± 10 %**
Weight	**16 kg (Net)** **17 kg (Gross)**	Size with Handle	**267.5 mm × 147 mm × 401 mm**
Input Voltage	**AC 380 V – 480 V**	Power Cable Model	**Custom made, ⩾ 16 A**
Internet Connections	**Ethernet**	—	—

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 24 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Medium	**Special coolant: Insulating liquid (S5X/S3X)**
Humidity	① **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ② **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M66

Immersion Cooling

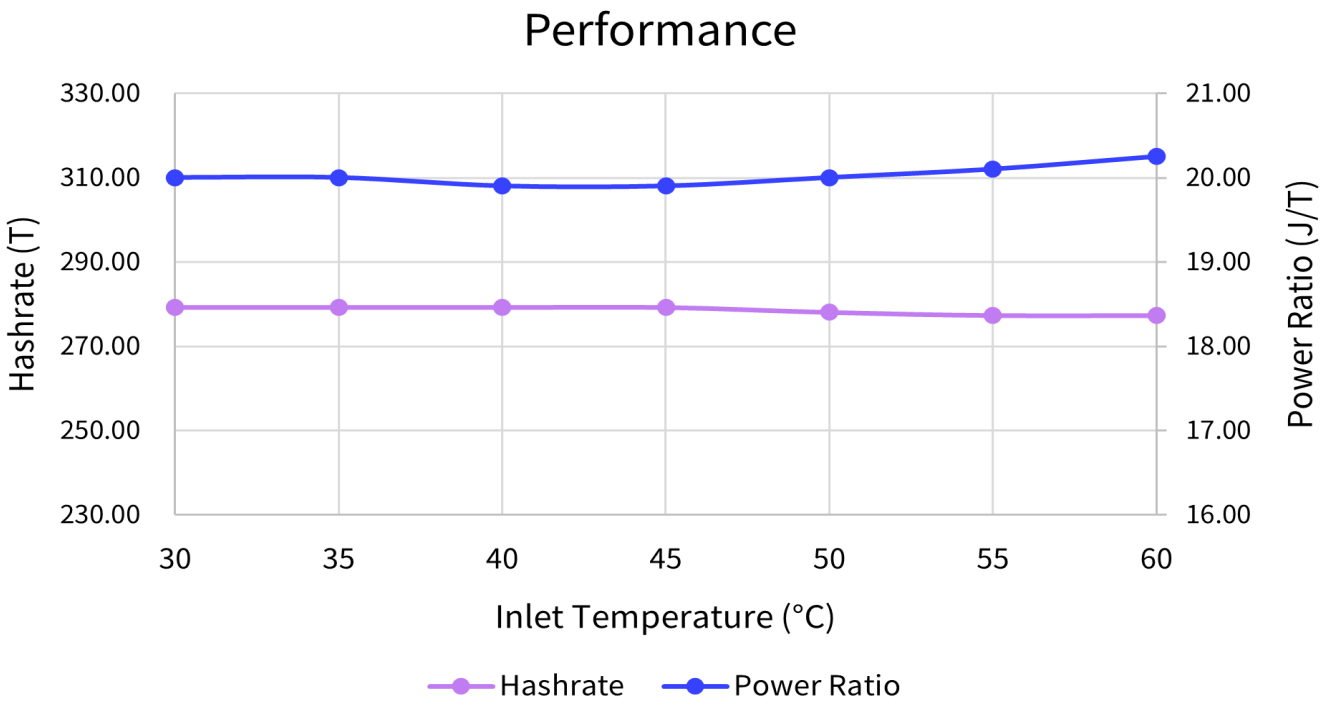
SPECIFICATION

Power Ratio	**19.9 J/T ± 5 %**	Hashrate	**240 T – 276 T ± 10 %**
Weight	**16 kg (Net)** **17 kg (Gross)**	Size with Handle	**267.5 mm × 147 mm × 401 mm**
Input Voltage	**AC 380 V – 480 V**	Power Cable Model	**Custom made, ⩾ 16 A**
Internet Connections	**Ethernet**	—	—

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 24 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Medium	**Special coolant: Insulating liquid (S5X/S3X)**
Humidity	① **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ② **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M65S

Hydro-Cooling (Outlet temperature reaches up to 80 °C)

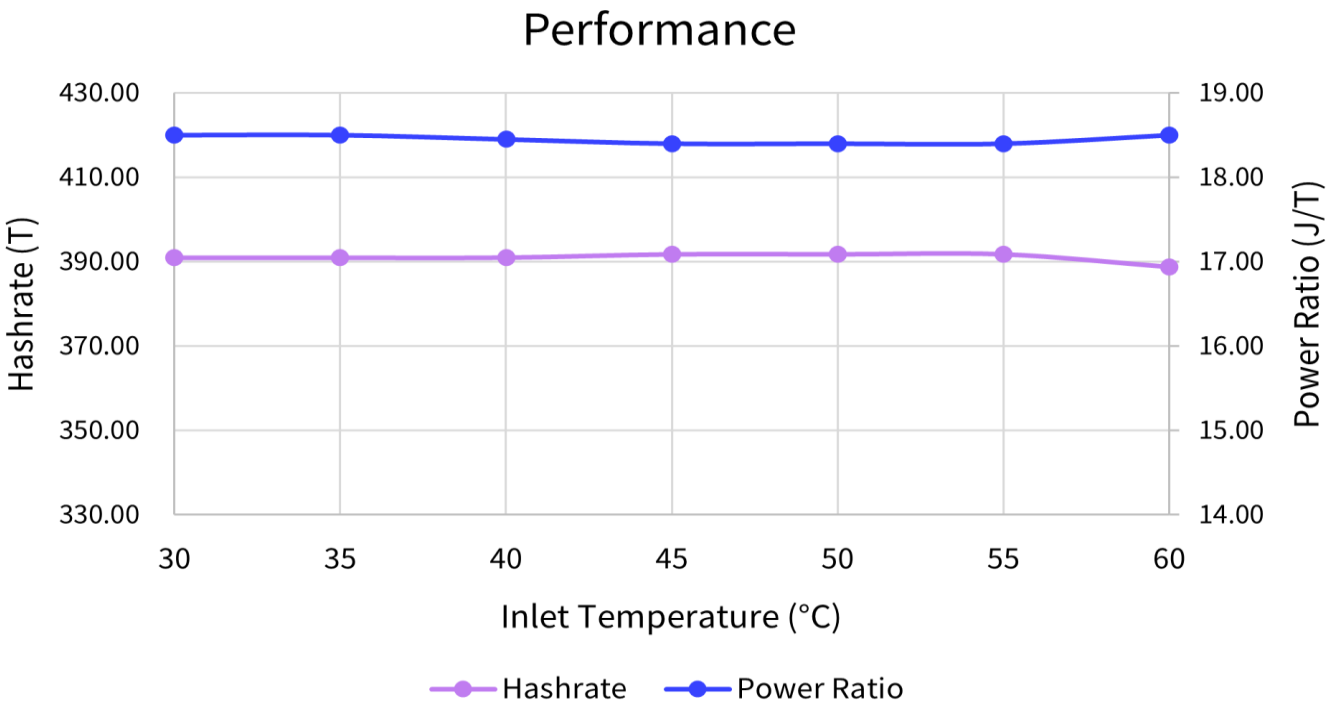
SPECIFICATION

Power Ratio	**18.5 J/T ± 5 %**	Hashrate	**370 T – 400 T ± 10 %**
Weight	**27.5 kg (Net)** **30 kg (Gross)**	Size with Handle	**86 mm × 482.6 mm × 663 mm**
Input Voltage	**AC 380 V – 480 V** **Input 10 kW**	Power Cable Model	**Custom made, ⩾ 16 A**
Coolant Demand Per Machine	**About 1 L**	Internet Connections	**Ethernet**

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 30 °C – 60 °C @ normal mode, 30 °C – 50 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 5 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Pressure	**⩽ 400 Kpa**
Liquid Medium	**Special coolant: Pure water (or distilled water) + special corrosion inhibitor + antifreeze (select a ratio according to a freezing point)**
Liquid PH	**Control range: 7 – 8.7**
Humidity	① **Working humidity: 5 % RH – 85 % RH (non-condensing)** ② **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ③ **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M64

Hydro-Cooling (Outlet temperature reaches up to 80 °C)

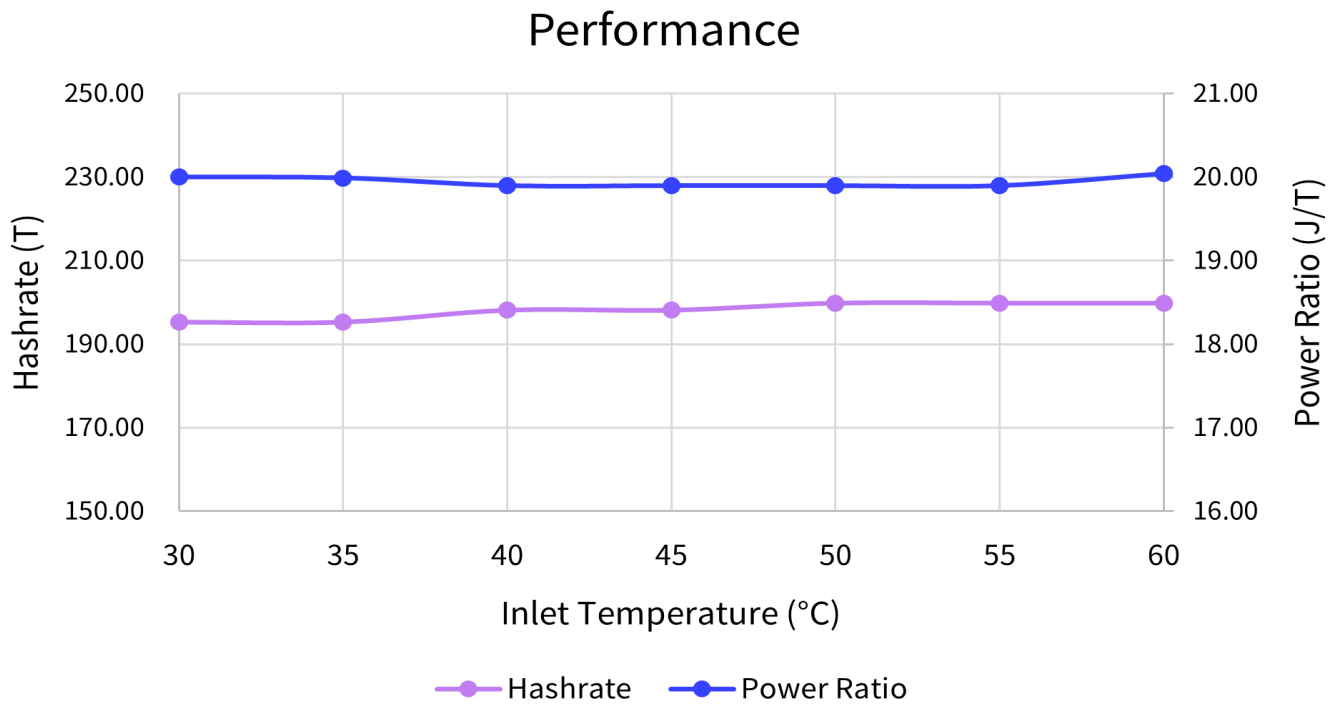
SPECIFICATION

Power Ratio	**19.9 J/T ± 5 %**	Hashrate	**180 T – 206 T ± 10 %**
Weight	**16 kg (Net)** **17 kg (Gross)**	Size with Handle	**371 mm × 290 mm × 109 mm**
Input Voltage	**AC 220 V – 277 V** **Input 5 kW**	Power Cable Model	**Custom made, ⩾ 25 A**
Coolant Demand Per Machine	**About 1 L**	Internet Connections	**Ethernet**

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 35 °C – 70 °C @ normal mode, 35 °C – 55 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 3.5 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Pressure	**⩽ 400 Kpa**
Liquid Medium	**Special coolant: Pure water (or distilled water) + special corrosion inhibitor + antifreeze (select a ratio according to a freezing point)**
Liquid PH	**Control range: 7 – 8.7**
Humidity	① **Working humidity: 5 % RH – 85 % RH (non-condensing)** ② **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ③ **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M63S++

Hydro-Cooling (Outlet temperature reaches up to 70 °C)

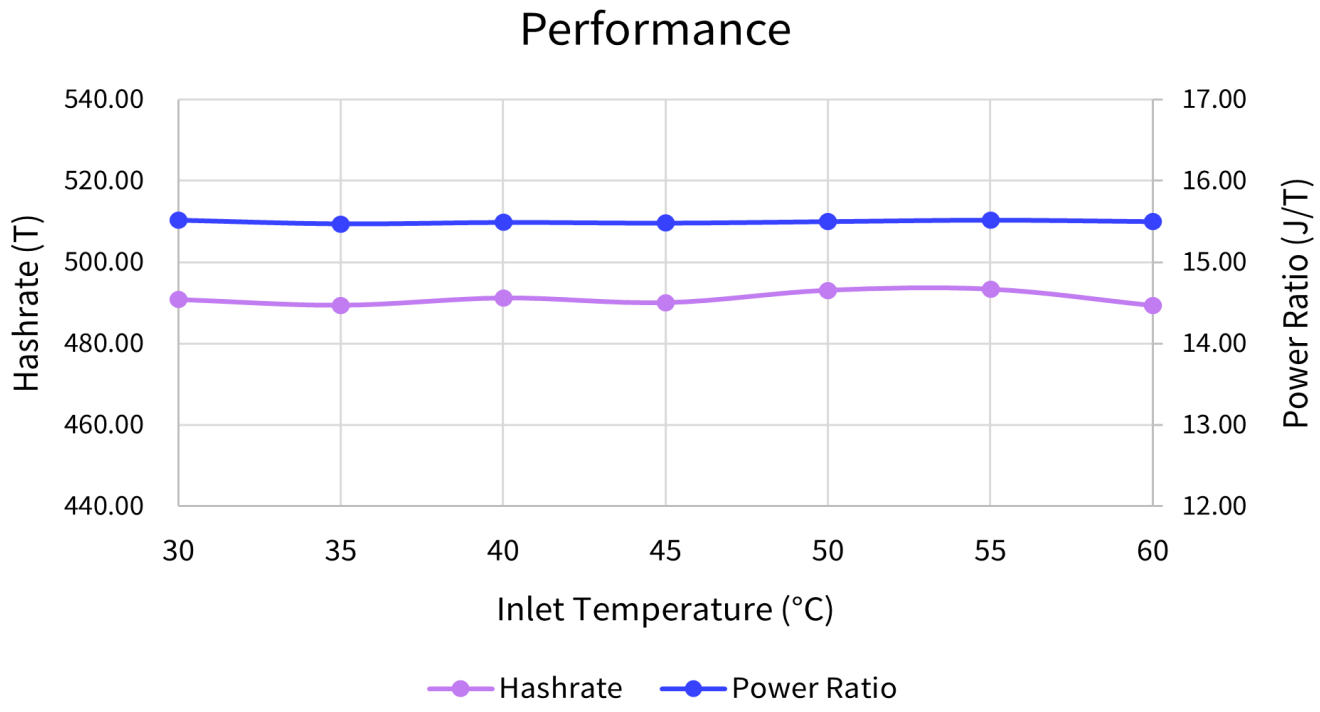
SPECIFICATION

Power Ratio	**15.5 J/T ± 5 %**	Hashrate	**434 T – 478 T ± 10 %**
Weight	**29.5 kg (Net)** **32 kg (Gross)**	Size with Handle	**86 mm × 482.6 mm × 663 mm**
Input Voltage	**AC 380 V – 480 V** **Input 10 Kw**	Power Cable Model	**Custom made, ⩾ 16 A**
Coolant Demand Per Machine	**About 1 L**	Internet Connections	**Ethernet**

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 10 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Pressure	**⩽ 400 Kpa**
Liquid Medium	**Special coolant: Pure water (or distilled water) + special corrosion inhibitor + antifreeze (select a ratio according to a freezing point)**
Liquid PH	**Control range: 7 – 8.7**
Humidity	① **Working humidity: 5 % RH – 85 % RH (non-condensing)** ② **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ③ **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M63S+

Hydro-Cooling (Outlet temperature reaches up to 70 °C)

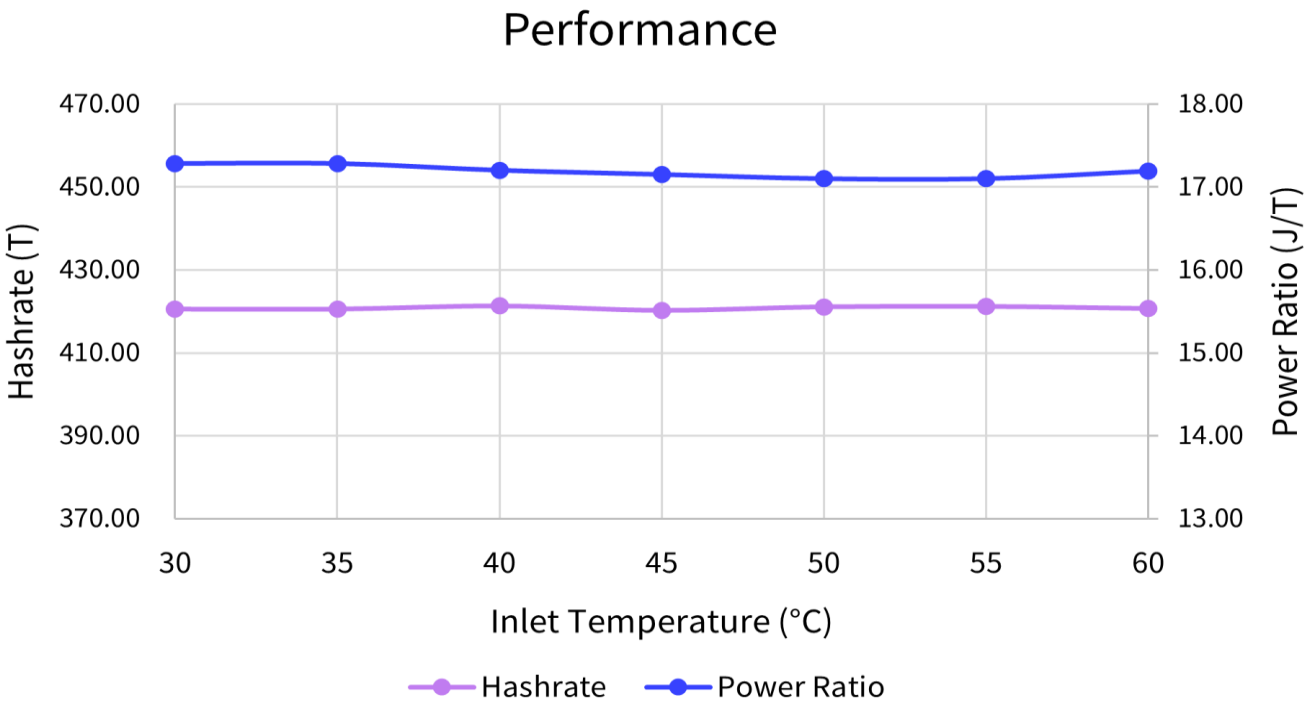
SPECIFICATION

Power Ratio	**17 J/T ± 5 %**	Hashrate	**390 T – 450 T ± 10 %**
Weight	**29.5 kg (Net)** **32 kg (Gross)**	Size with Handle	**86 mm × 482.6 mm × 663 mm**
Input Voltage	**AC 380 V – 480 V** **Input 10 Kw**	Power Cable Model	**Custom made, ⩾ 16 A**
Coolant Demand Per Machine	**About 1 L**	Internet Connections	**Ethernet**

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 10 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Pressure	**⩽ 400 Kpa**
Liquid Medium	**Special coolant: Pure water (or distilled water) + special corrosion inhibitor + antifreeze (select a ratio according to a freezing point)**
Liquid PH	**Control range: 7 – 8.7**
Humidity	① **Working humidity: 5 % RH – 85 % RH (non-condensing)** ② **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ③ **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M63S

Hydro-Cooling (Outlet temperature reaches up to 70 °C)

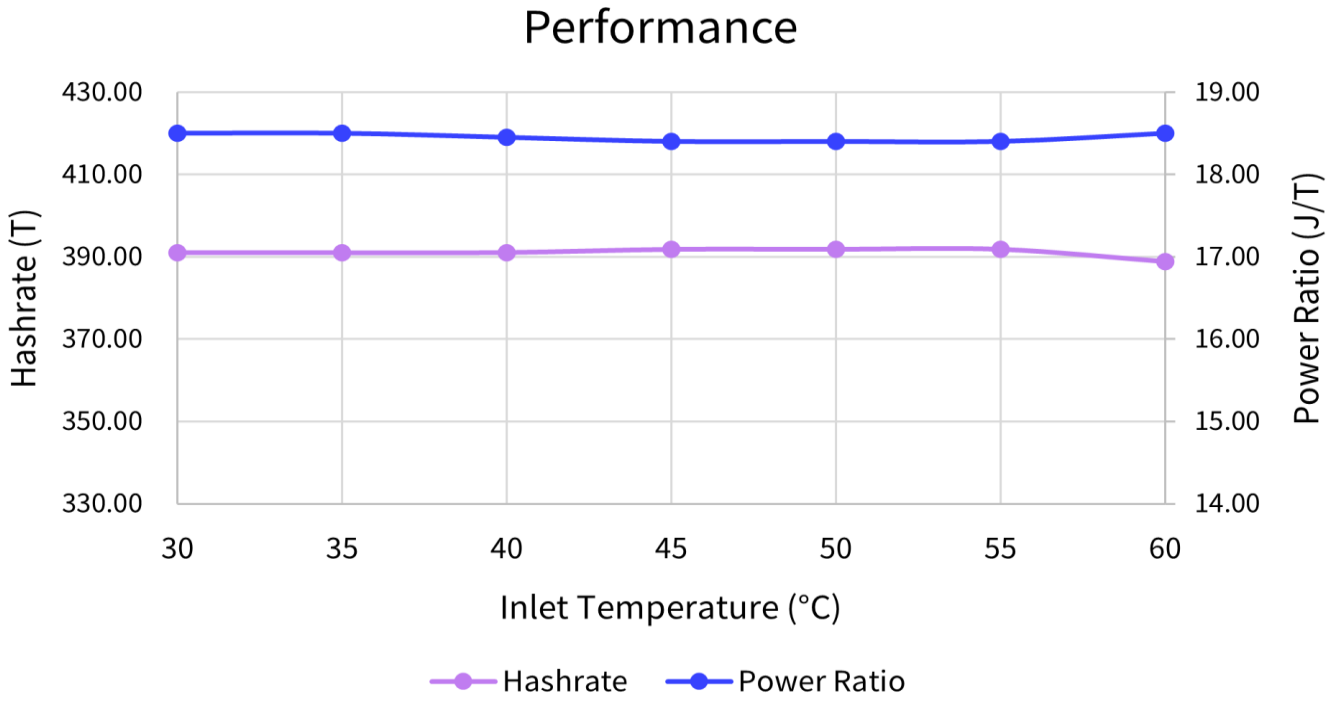
SPECIFICATION

Power Ratio	**18.5 J/T ± 5 %**	Hashrate	**370 T – 400 T ± 10 %**
Weight	**27.5 kg (Net)** **30 kg (Gross)**	Size with Handle	**86 mm × 482.6 mm × 663 mm**
Input Voltage	**AC 380 V – 480 V** **Input 10 kW**	Power Cable Model	**Custom made, ⩾ 16 A**
Coolant Demand Per Machine	**About 1 L**	Internet Connections	**Ethernet**

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow: ⩾ 10 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Pressure	**⩽ 400 Kpa**
Liquid Medium	**Special coolant: Pure water (or distilled water) + special corrosion inhibitor + antifreeze (select a ratio according to a freezing point)**
Liquid PH	**Control range: 7 – 8.7**
Humidity	① **Working humidity: 5 % RH – 85 % RH (non-condensing)** ② **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ③ **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

WHATSMINER M63

Hydro-Cooling (Outlet temperature reaches up to 70 °C)

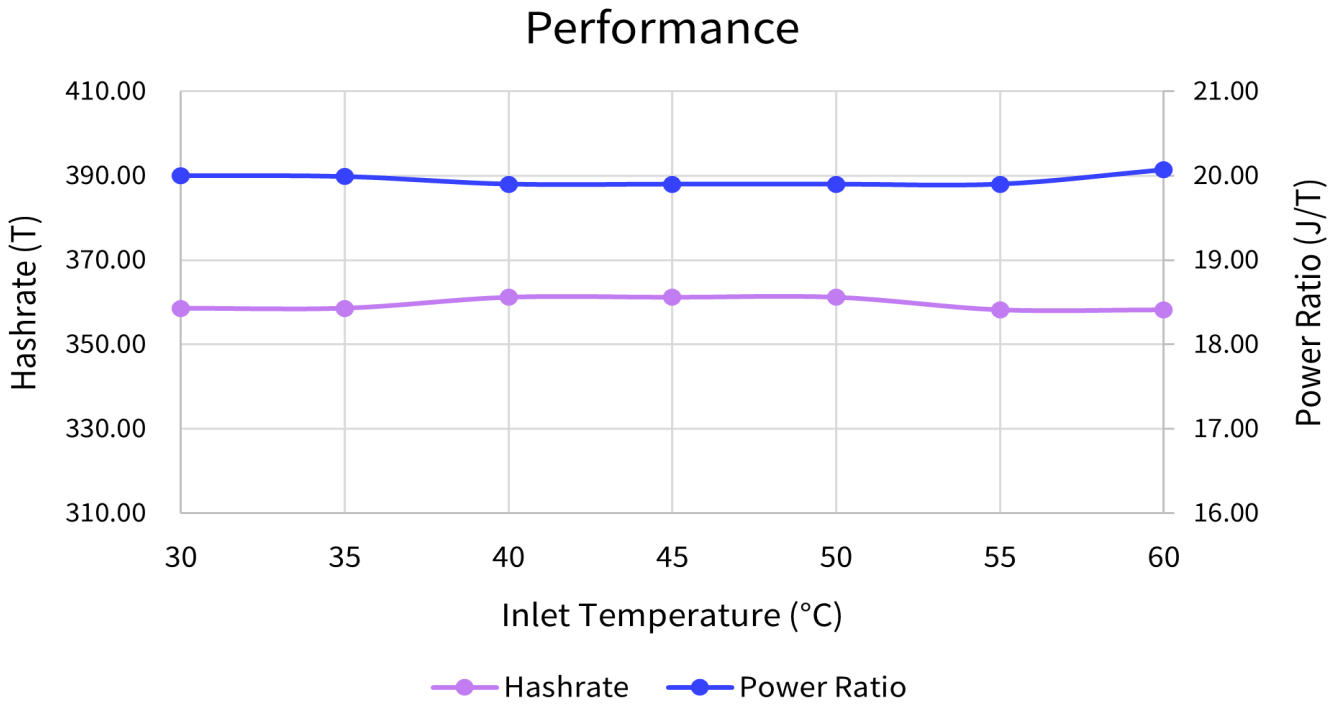
SPECIFICATION

Power Ratio	**19.9 J/T ± 5 %**	Hashrate	**334 T – 366 T ± 10 %**
Weight	**27.5 kg (Net)** **30 kg (Gross)**	Size with Handle	**86 mm × 482.6 mm × 663 mm**
Input Voltage	**AC 380 V – 480 V** **Input 10 kW**	Power Cable Model	**Custom made, ⩾ 16 A**
Coolant Demand Per Machine	**About 1 L**	Internet Connections	**Ethernet**

ENVIRONMENTAL PARAMETERS

Liquid Temperature	① **Working temperature (inlet): 25 °C – 55 °C @ normal mode, 25 °C – 45 °C @ high performance mode** ② **Inlet temperature control accuracy: ± 2 °C** ③ **Storage and transportation temperature: -40 °C – +70 °C**
Liquid Flow	① **Rated flow : ⩾ 10 L/min** ② **Flow control accuracy: ± 10 %**
Liquid Pressure	**⩽ 400 Kpa**
Liquid Medium	**Special coolant: Pure water (or distilled water) + special corrosion inhibitor + antifreeze (select a ratio according to a freezing point)**
Liquid PH	**Control range: 7 – 8.7**
Humidity	① **Working humidity: 5 % RH – 85 % RH (non-condensing)** ② **Storage humidity: 5 % RH – 95 % RH (non-condensing)** ③ **Long-term storage humidity: 30 % RH – 69 % RH (non-condensing)**

PERFORMANCE



Prototype data for reference only.

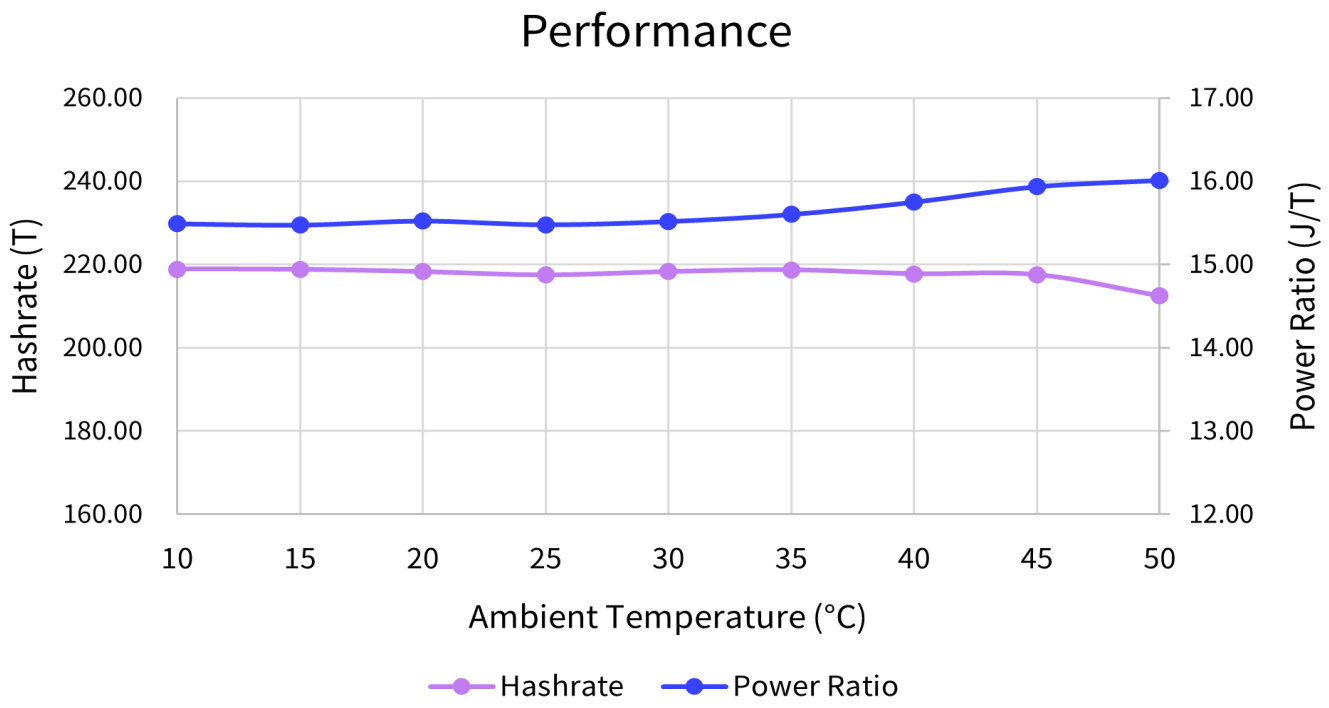
WHATSMINER M60S++

Air Cooling

SPECIFICATION

Power Ratio	**15.5 J/T ± 5 % @ 25 °C**	Hashrate	**200 T – 226 T ± 5 %**
Weight	**11.5 kg (Net)** **12.6 kg (Gross)**	Size	**430 mm × 155 mm × 226 mm**
Working Temperature	**-5 °C – +35 °C**	Air Flow	**350 CFM**
Power On Wall	**3230 W – 3570 W ± 10 %**	Power Cable Model	**IEC C19, ⩾ 16 A**
Input Voltage	**AC 220 V – 240 V**	Internet Connections	**Ethernet**

PERFORMANCE



Prototype data for reference only.

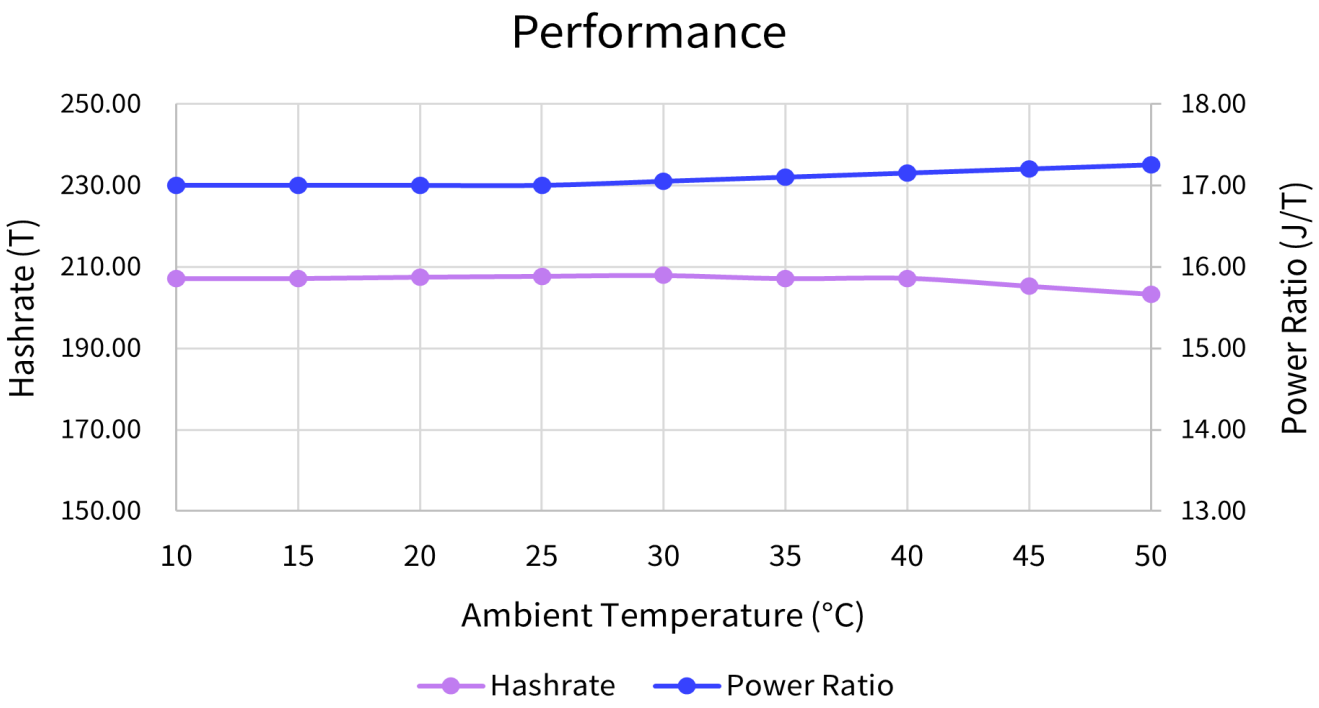
WHATSMINER M60S+

Air Cooling

SPECIFICATION

Power Ratio	**17 J/T ± 5 % @ 25 °C**	Hashrate	**190 T – 210 T ± 5 %**
Weight	**11.5 kg (Net)** **12.6 kg (Gross)**	Size	**430 mm × 155 mm × 226 mm**
Working Temperature	**-5 °C – +35 °C**	Air Flow	**350 CFM**
Power On Wall	**3230 W – 3570 W ± 10 %**	Power Cable Model	**IEC C19, ⩾ 16 A**
Input Voltage	**AC 220 V – 240 V**	Internet Connections	**Ethernet**

PERFORMANCE



Prototype data for reference only.

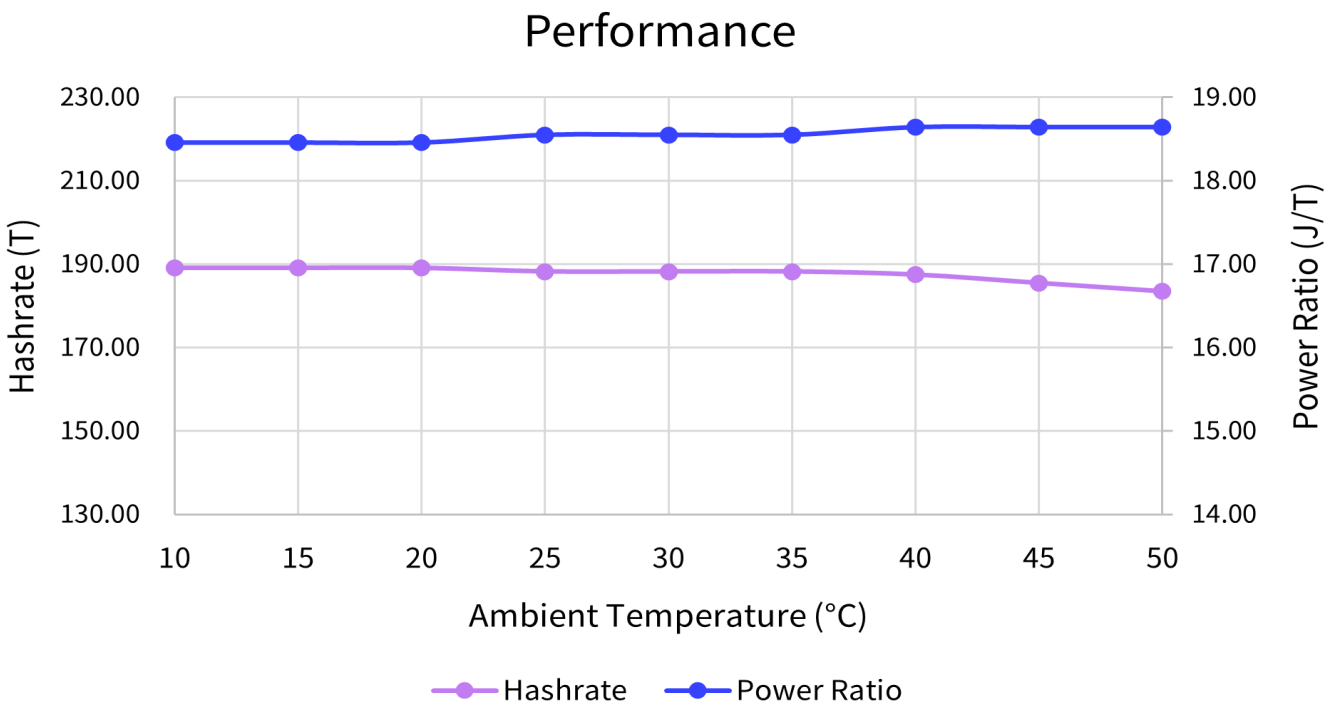
WHATSMINER M60S

Air Cooling

SPECIFICATION

Power Ratio	**18.5 J/T ± 5 % @ 25 °C**	Hashrate	**170 T – 186 T ± 5 %**
Weight	**11.5 kg (Net)** **12.6 kg (Gross)**	Size	**430 mm × 155 mm × 226 mm**
Working Temperature	**-5 °C – +35 °C**	Air Flow	**350 CFM**
Power On Wall	**3145 W – 3441 W ± 10 %**	Power Cable Model	**IEC C19, ⩾ 16 A**
Input Voltage	**AC 220 V – 240 V**	Internet Connections	**Ethernet**

PERFORMANCE



Prototype data for reference only.

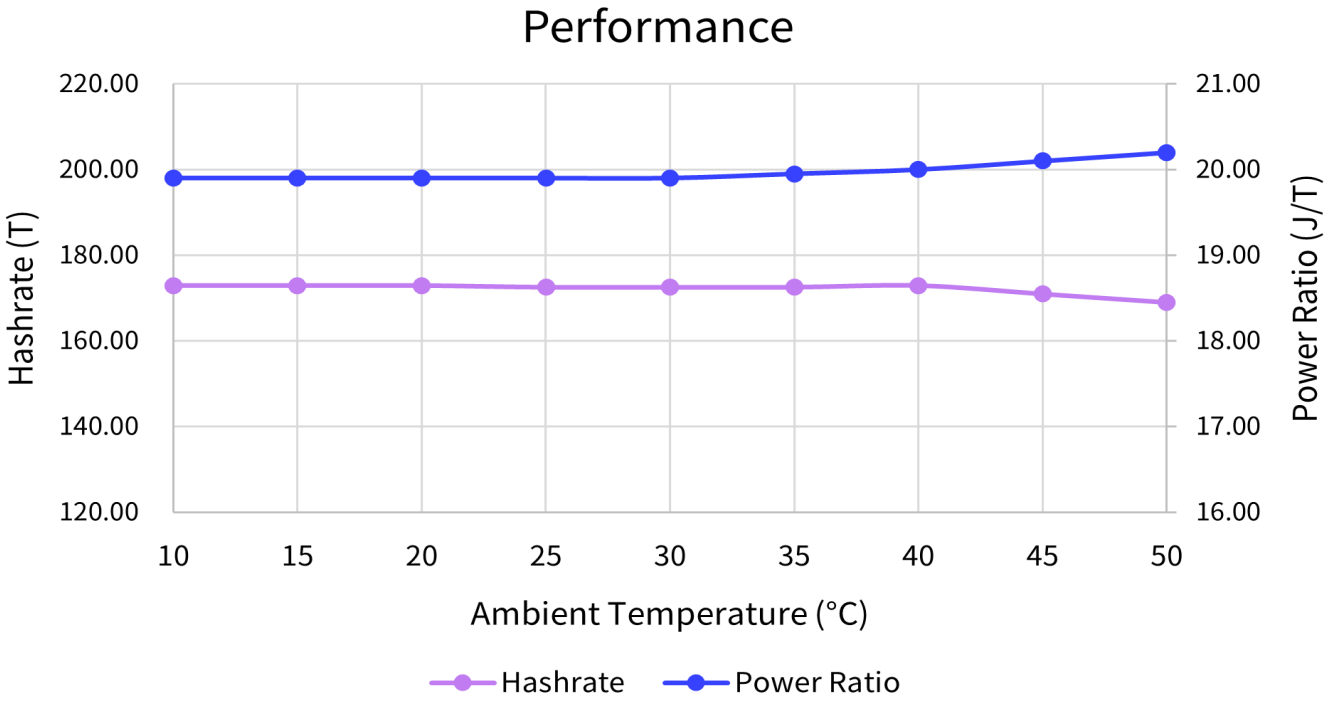
WHATSMINER M60

Air Cooling

SPECIFICATION

Power Ratio	**19.9 J/T ± 5 % @ 25 °C**	Hashrate	**150 T – 172 T ± 5 %**
Weight	**11.5 kg (Net)** **12.6 kg (Gross)**	Size	**430 mm × 155 mm × 226 mm**
Working Temperature	**-5 °C – +35 °C**	Air Flow	**350 CFM**
Power On Wall	**2985 W – 3422 W ± 10 %**	Power Cable Model	**IEC C19, ⩾ 16 A**
Input Voltage	**AC 220 V – 240 V**	Internet Connections	**Ethernet**

PERFORMANCE



Prototype data for reference only.