



WHATSMINER M6X Series Product Manual

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Shenzhen MicroBT Electronics Technology Co.,Ltd.

www.whatsminer.com

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WHATSMINER M66S++

Immersion Cooling



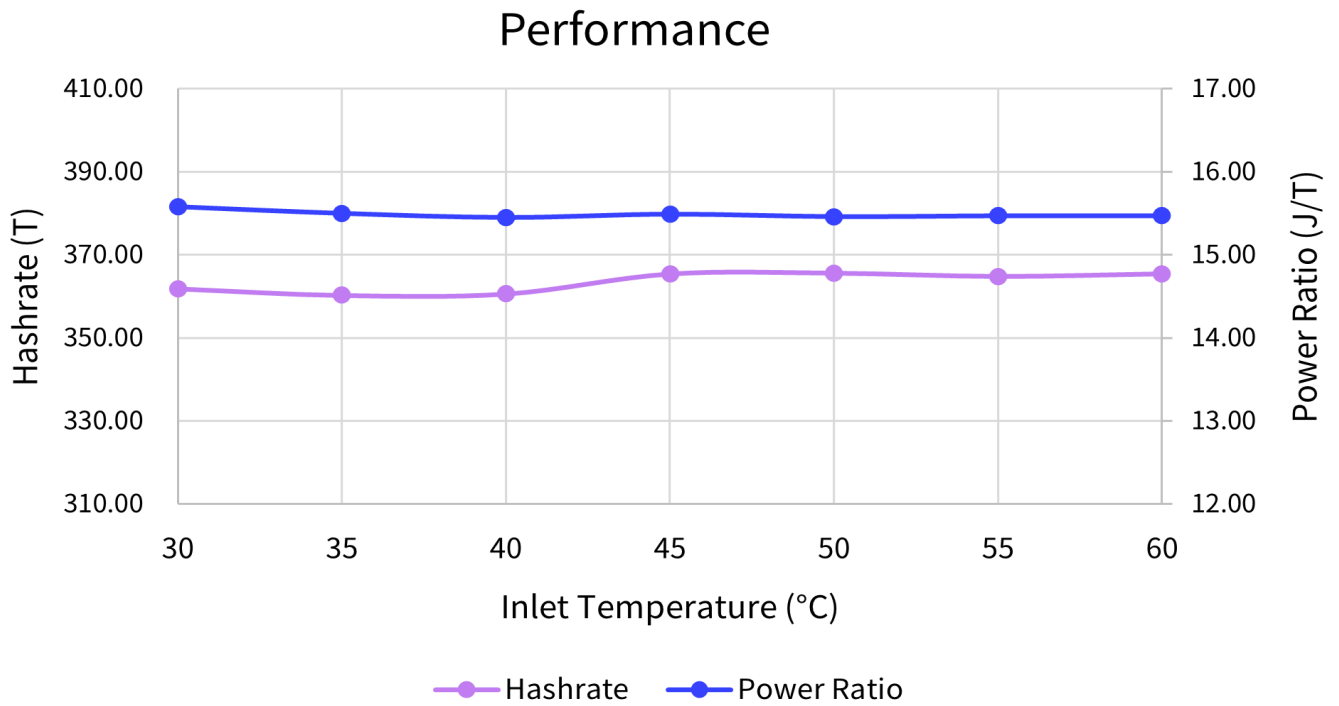
SPECIFICATION

Power Ratio	15.5 J/T $\pm$ 5 %	Hashrate	314 T – 356 T $\pm$ 10 %
Weight	18 kg (Net) 19 kg (Gross)	Size with Handle	267.5 mm $\times$ 147 mm $\times$ 401 mm
PSU Model	AC 380 V – 480 V	Power Cable Model	Custom made, $\geq$ 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



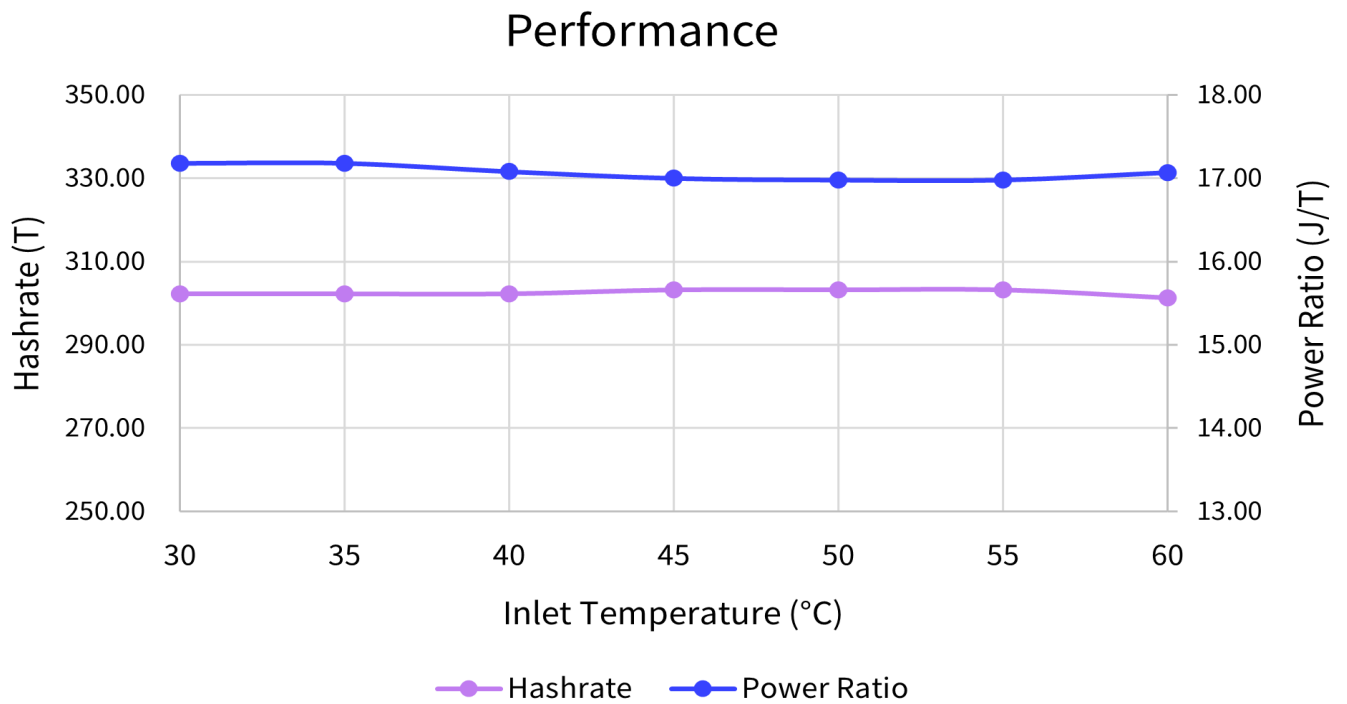
SPECIFICATION

Power Ratio	17 J/T $\pm$ 5 %	Hashrate	280 T – 318 T $\pm$ 10 %
Weight	18 kg (Net) 19 kg (Gross)	Size with Handle	267.5 mm $\times$ 147 mm $\times$ 401 mm
PSU Model	AC 380 V – 480 V	Power Cable Model	Custom made, $\geq$ 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



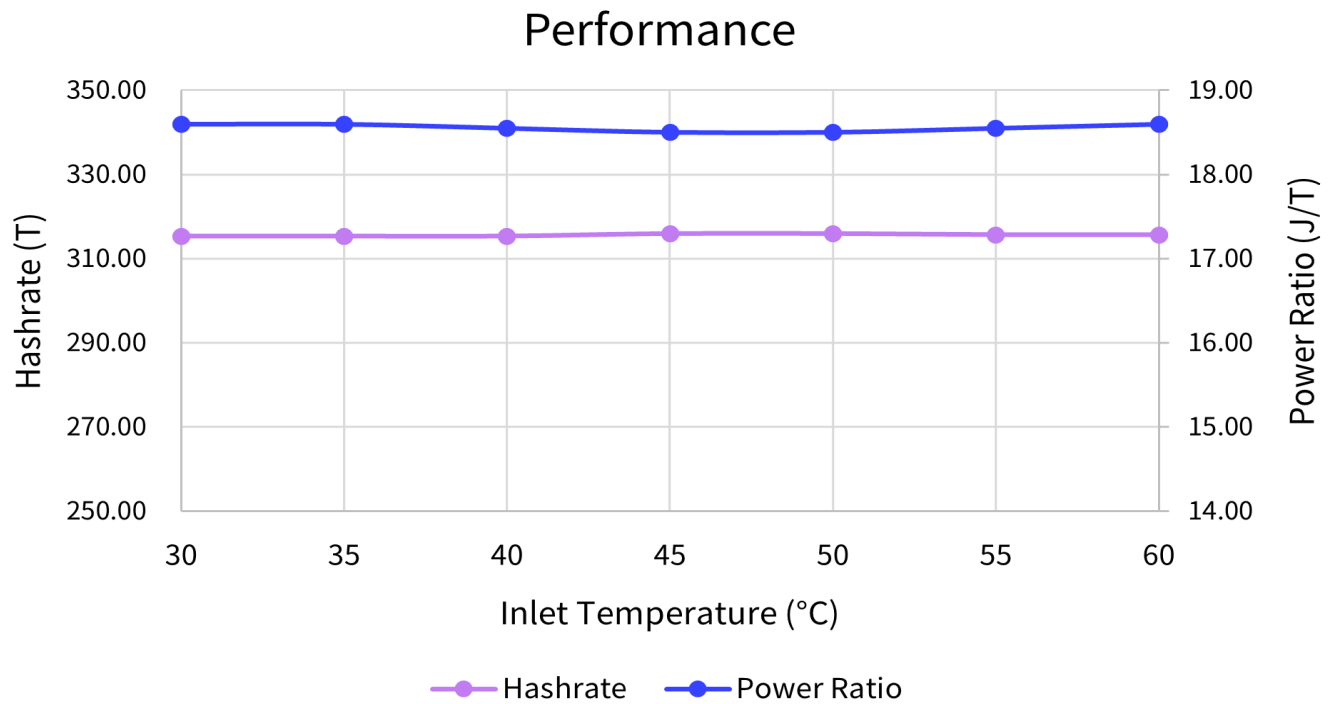
SPECIFICATION

Power Ratio	18.5 J/T $\pm$ 5 %	Hashrate	270 T – 298 T $\pm$ 10 %
Weight	16 kg (Net) 17 kg (Gross)	Size with Handle	267.5 mm $\times$ 147 mm $\times$ 401 mm
PSU Model	AC 380 V – 480 V	Power Cable Model	Custom made, $\geq$ 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



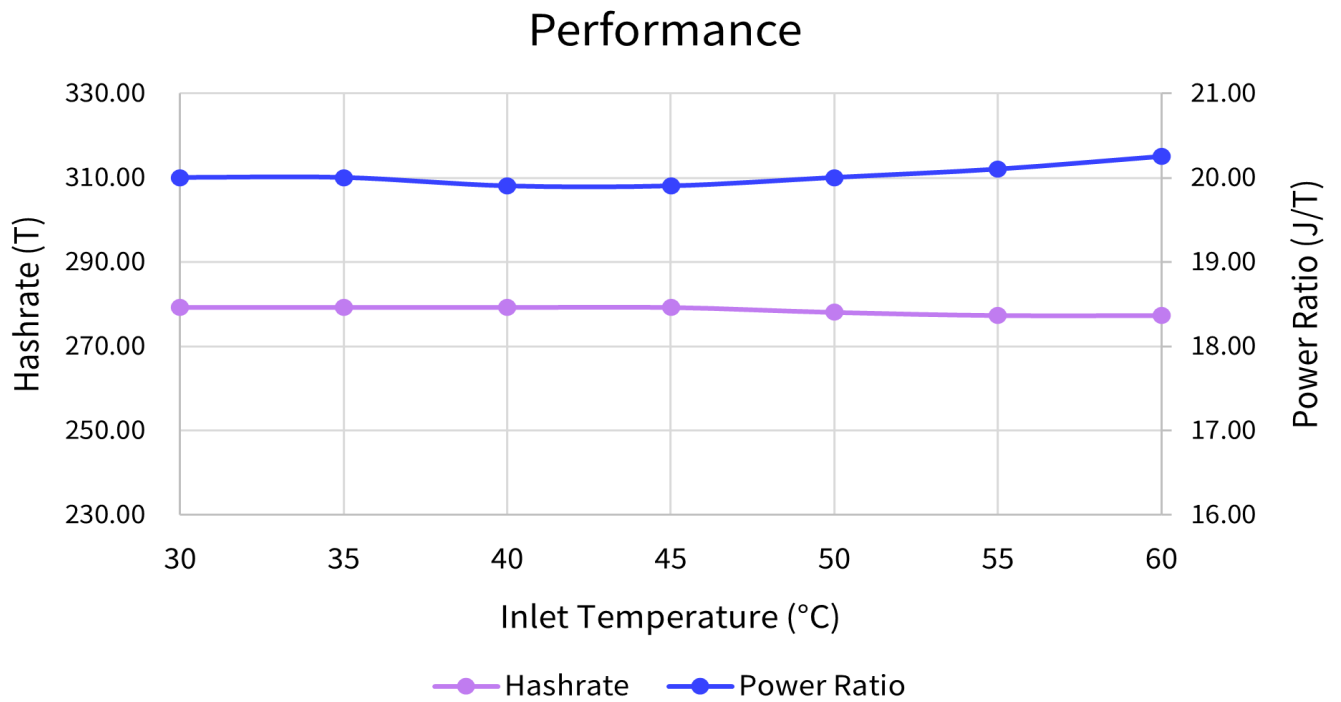
SPECIFICATION

Power Ratio	19.9 J/T $\pm$ 5 %	Hashrate	240 T – 276 T $\pm$ 10 %
Weight	16 kg (Net) 17 kg (Gross)	Size with Handle	267.5 mm $\times$ 147 mm $\times$ 401 mm
PSU Model	AC 380 V – 480 V	Power Cable Model	Custom made, $\geq$ 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)



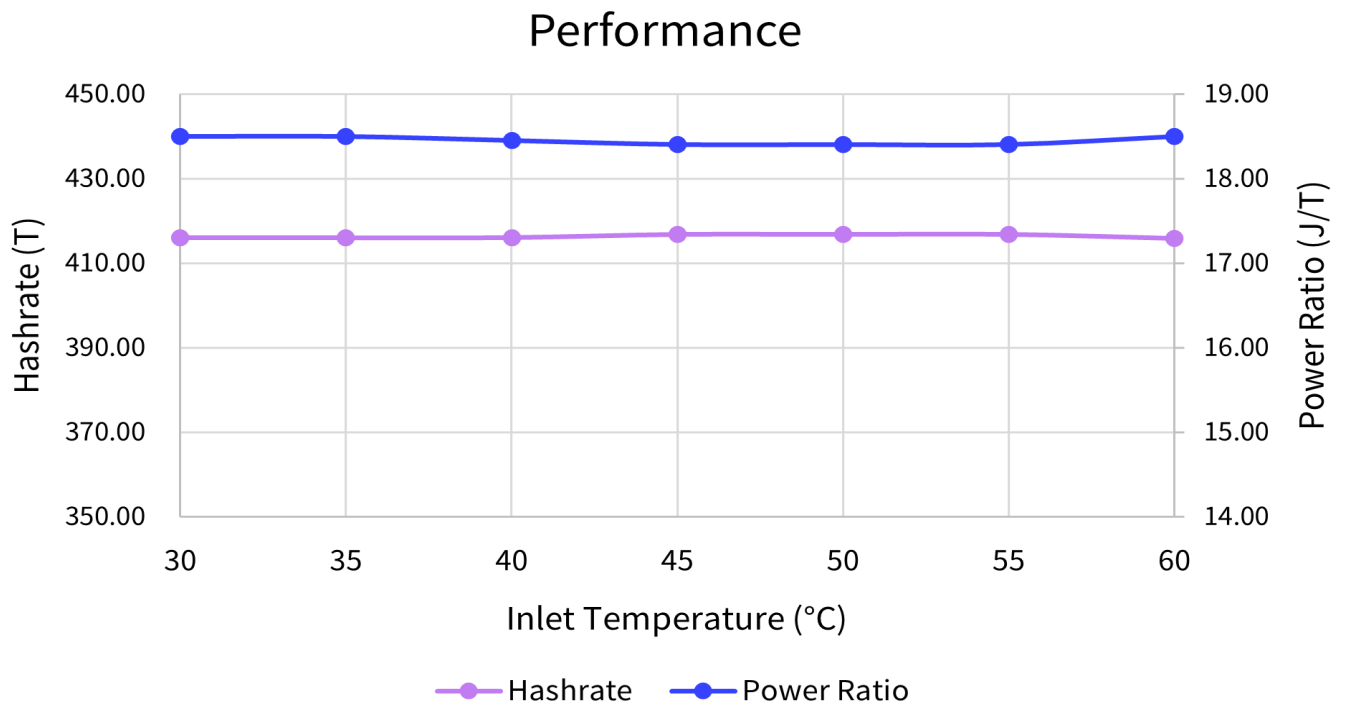
SPECIFICATION

Power Ratio	18.5 J/T $\pm$ 5 %	Hashrate	370 T – 400 T $\pm$ 10 %
Weight	27.5 kg (Net) 30 kg (Gross)	Size with Handle	86 mm $\times$ 482.6 mm $\times$ 663 mm
PSU Model	AC 380 V – 480 V Input 10 kW	Power Cable Model	Custom made, $\geq$ 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: 6 – 8
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)



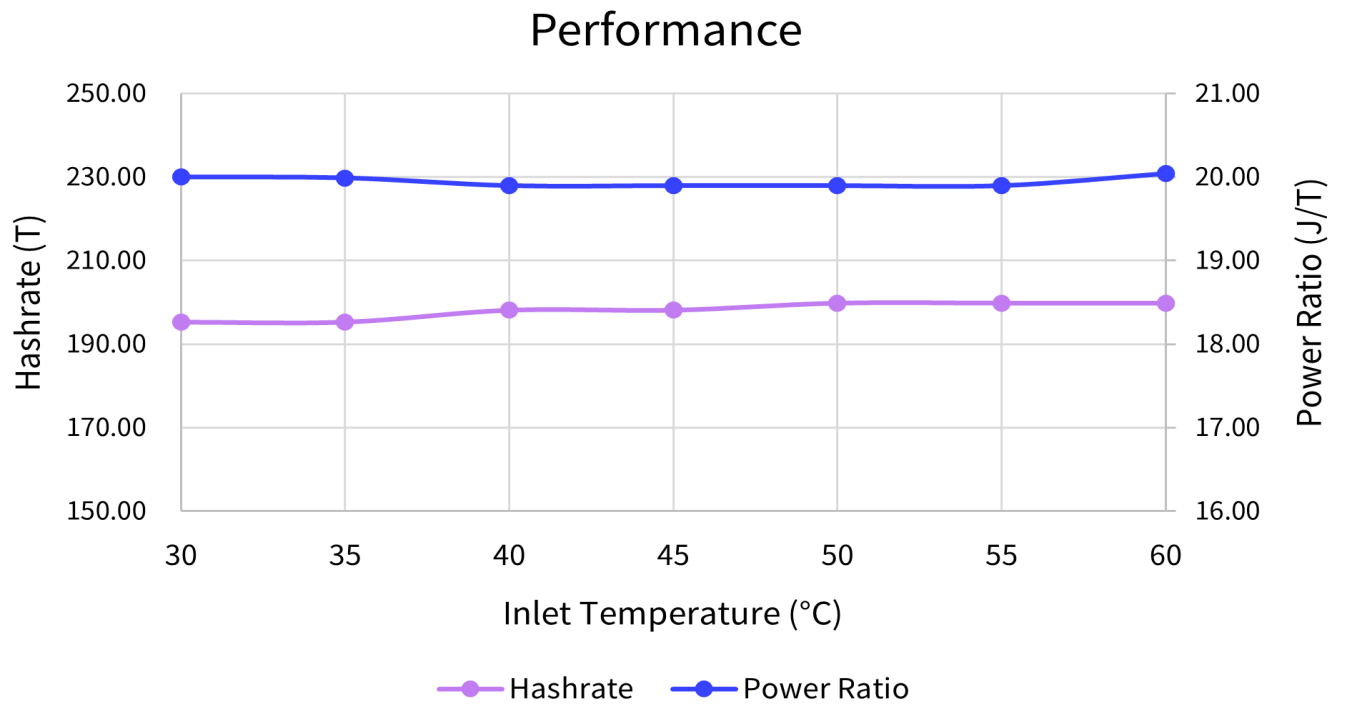
SPECIFICATION

Power Ratio	19.9 J/T $\pm$ 5 %	Hashrate	180 T – 206 T $\pm$ 10 %
Weight	16 kg (Net) 17 kg (Gross)	Size with Handle	371 mm $\times$ 290 mm $\times$ 109 mm
PSU Model	AC 220 V – 277 V Input 5 kW	Power Cable Model	Custom made, $\geq$ 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: 6 – 8
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)



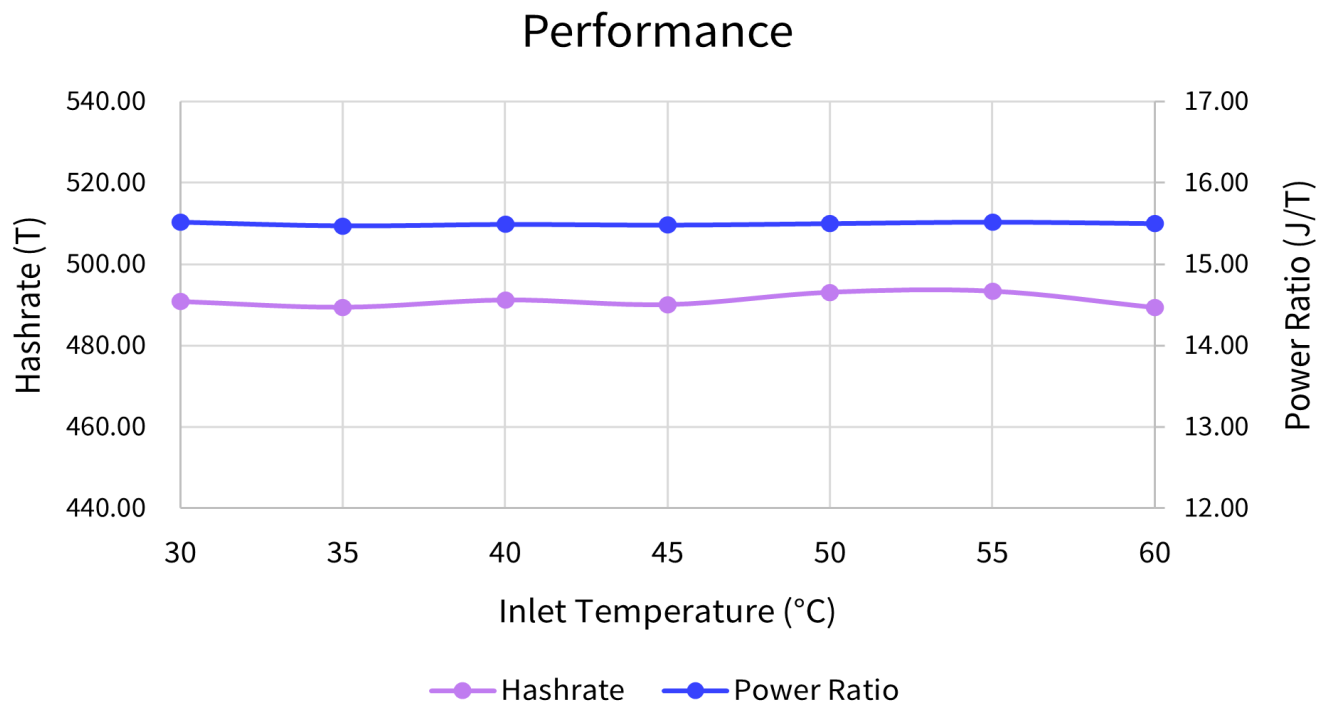
SPECIFICATION

Power Ratio	15.5 J/T $\pm$ 5 %	Hashrate	434 T – 478 T $\pm$ 10 %
Weight	29.5 kg (Net) 32 kg (Gross)	Size with Handle	86 mm $\times$ 482.6 mm $\times$ 663 mm
PSU Model	AC 380 V – 480 V Input 10 Kw	Power Cable Model	Custom made, $\geq$ 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: 6 – 8
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)



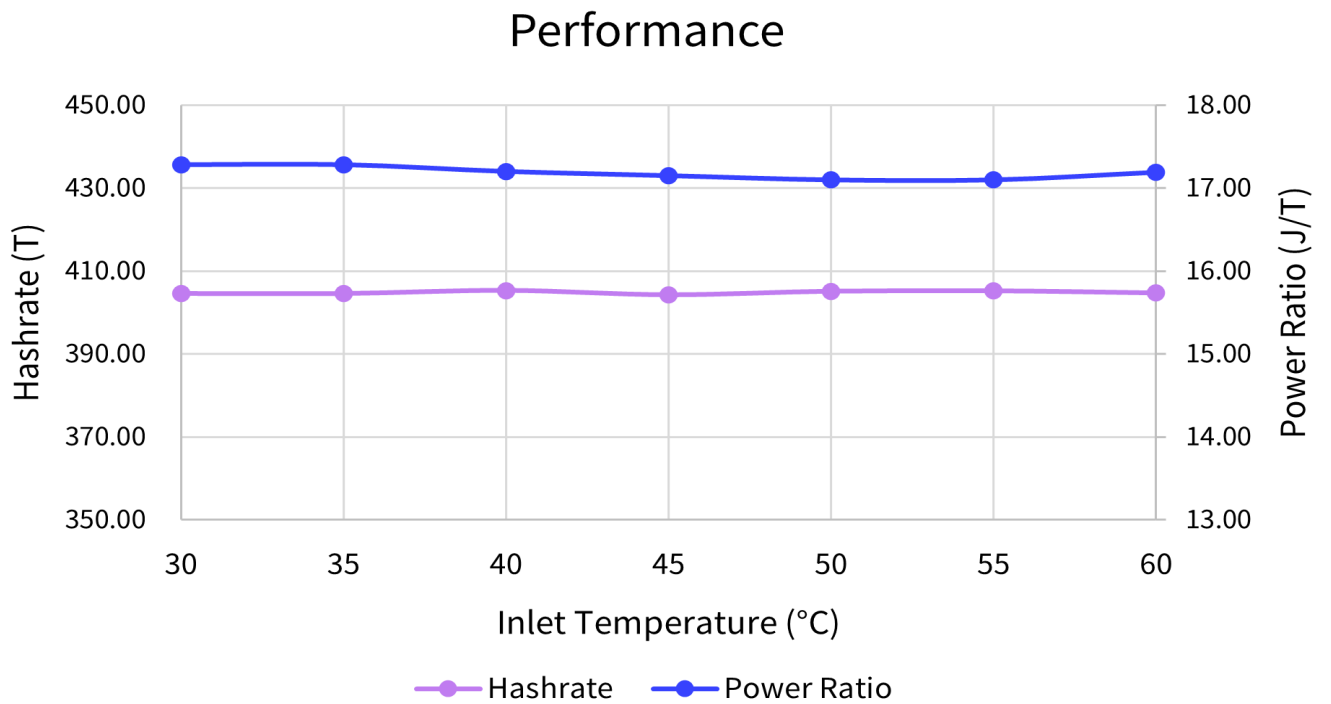
SPECIFICATION

Power Ratio	17 J/T $\pm$ 5 %	Hashrate	390 T – 450 T $\pm$ 10 %
Weight	29.5 kg (Net) 32 kg (Gross)	Size with Handle	86 mm $\times$ 482.6 mm $\times$ 663 mm
PSU Model	AC 380 V – 480 V Input 10 Kw	Power Cable Model	Custom made, $\geq$ 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: 6 – 8
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)



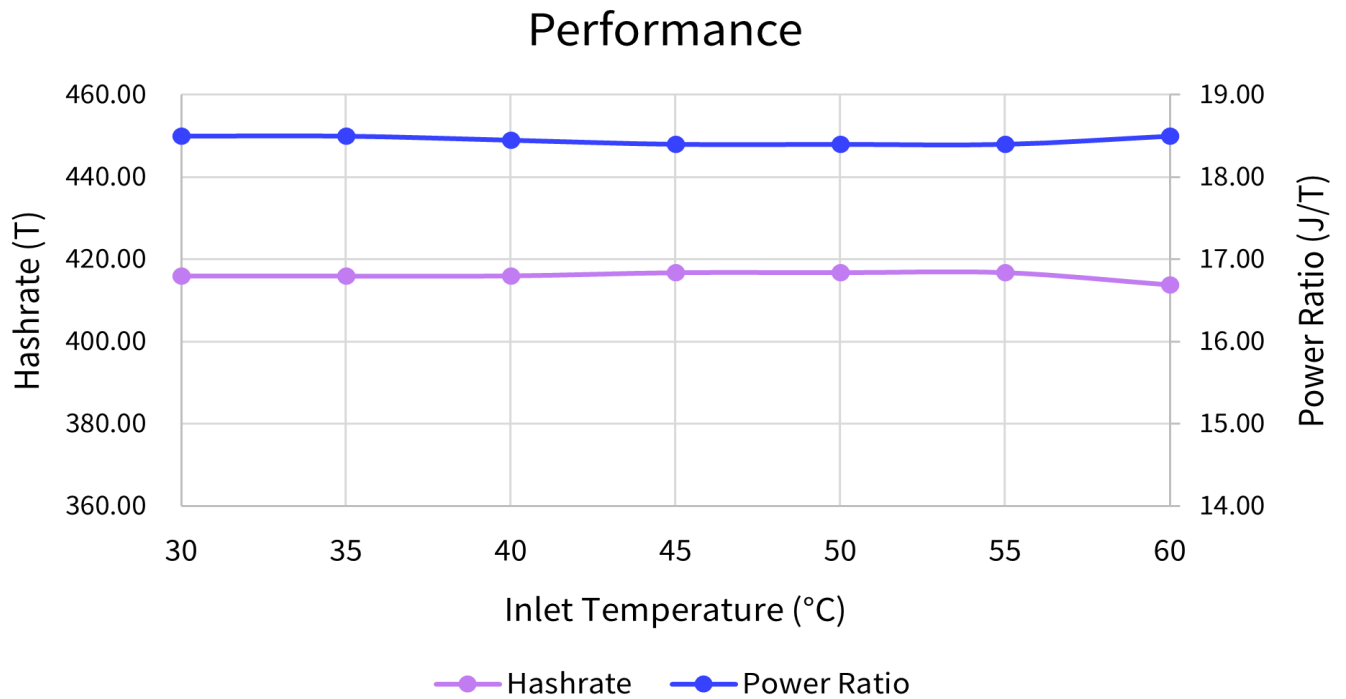
SPECIFICATION

Power Ratio	18.5 J/T $\pm$ 5 %	Hashrate	370 T – 400 T $\pm$ 10 %
Weight	27.5 kg (Net) 30 kg (Gross)	Size with Handle	86 mm × 482.6 mm × 663 mm
PSU Model	AC 380 V – 480 V Input 10 kW	Power Cable Model	Custom made, $\geq$ 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: 6 – 8
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)



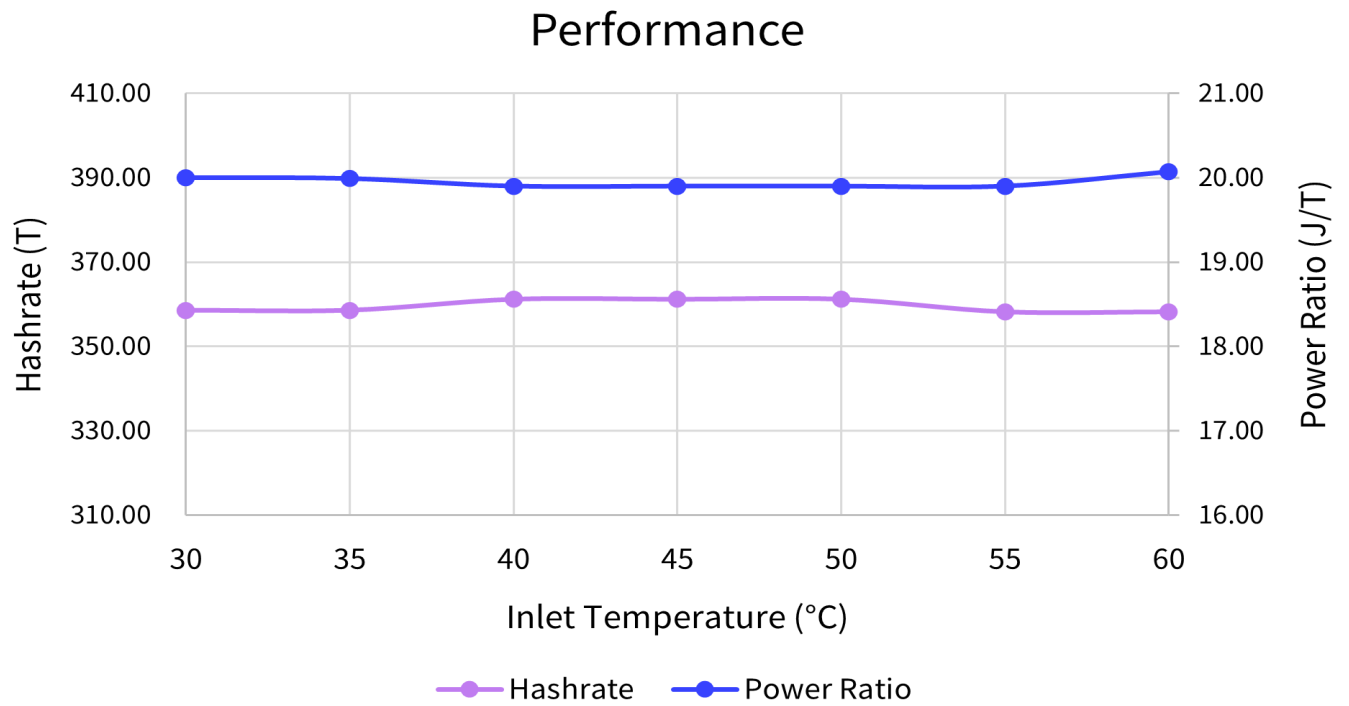
SPECIFICATION

Power Ratio	19.9 J/T $\pm$ 5 %	Hashrate	334 T – 366 T $\pm$ 10 %
Weight	27.5 kg (Net) 30 kg (Gross)	Size with Handle	86 mm $\times$ 482.6 mm $\times$ 663 mm
PSU Model	AC 380 V – 480 V Input 10 kW	Power Cable Model	Custom made, $\geq$ 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: 6 – 8
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++

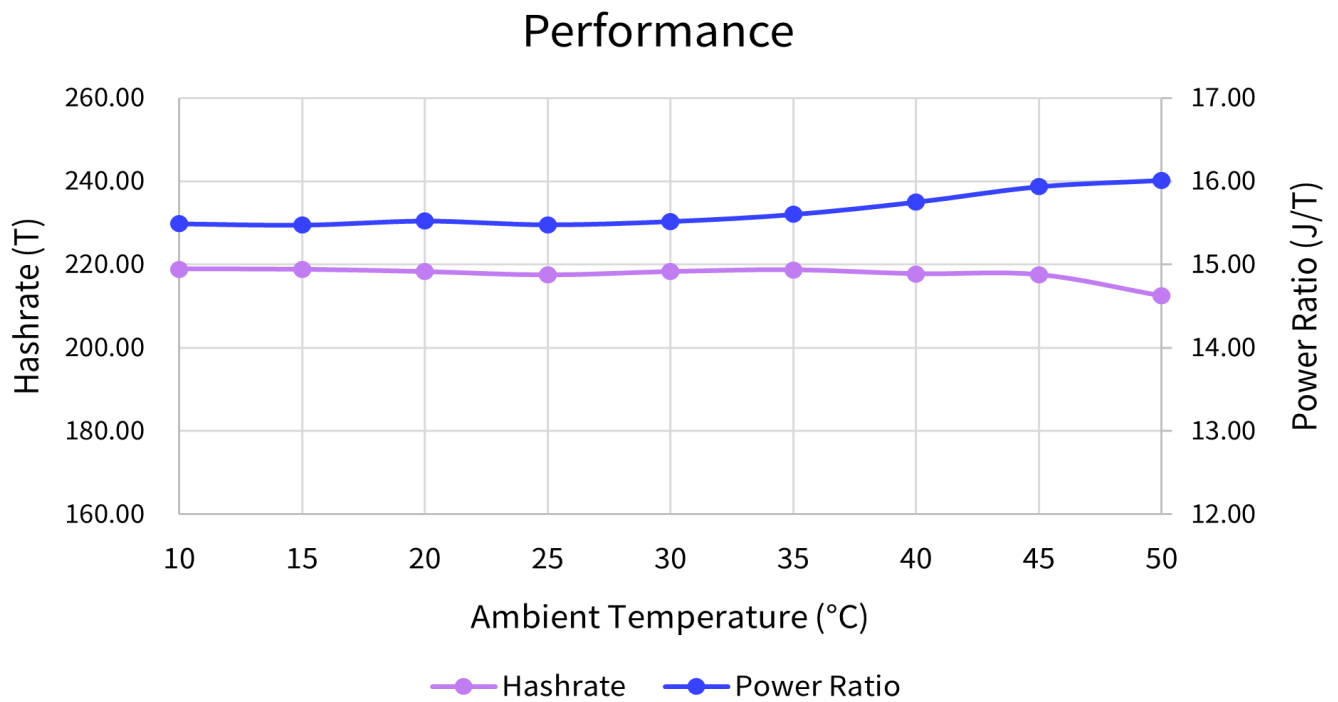
Air Cooling



SPECIFICATION

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

PERFORMANCE



Prototype data for reference only.

WHATSMINER M60S+

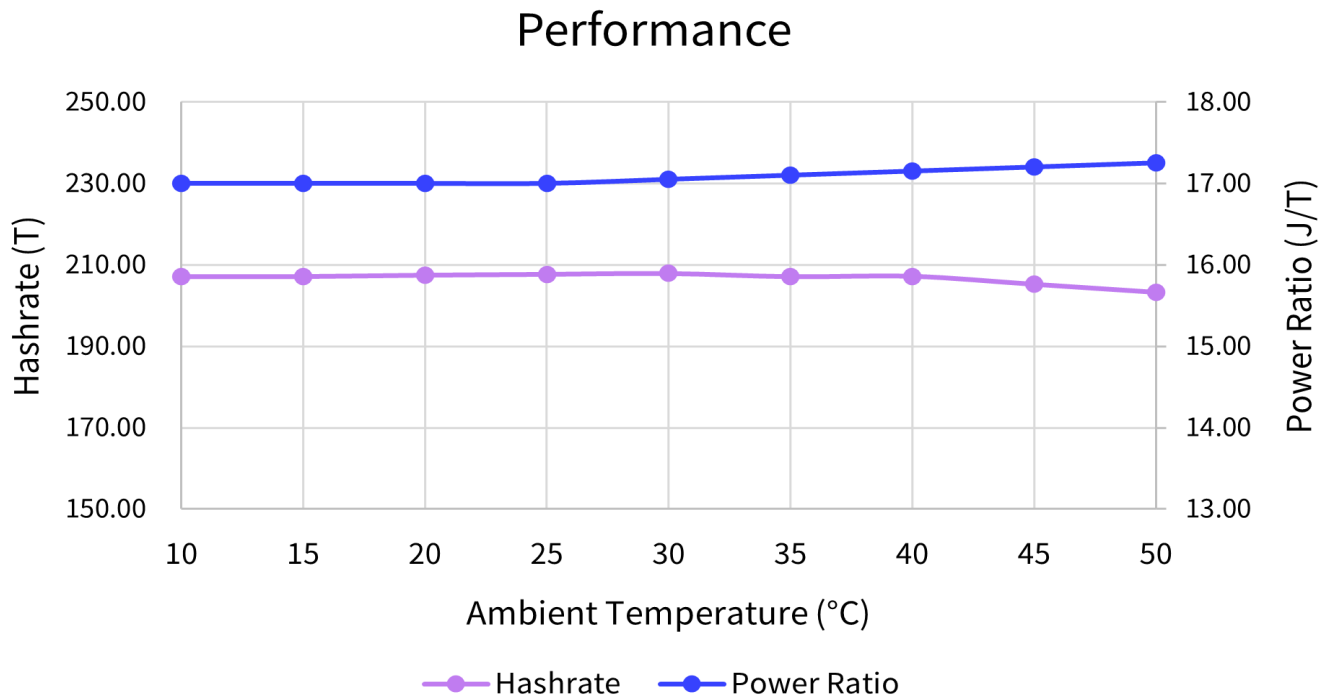
Air Cooling



SPECIFICATION

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

PERFORMANCE



Prototype data for reference only.

WHATSMINER M60S

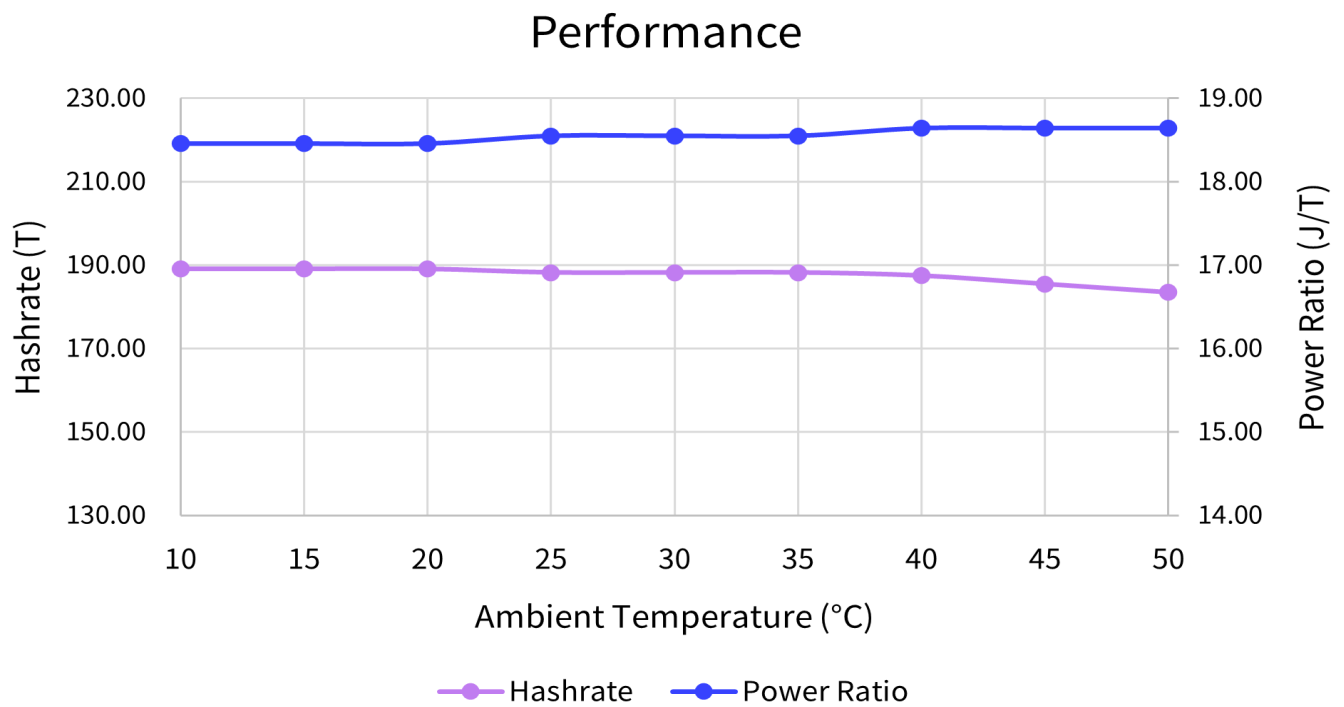
Air Cooling



SPECIFICATION

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

PERFORMANCE



Prototype data for reference only.

WHATSMINER M60

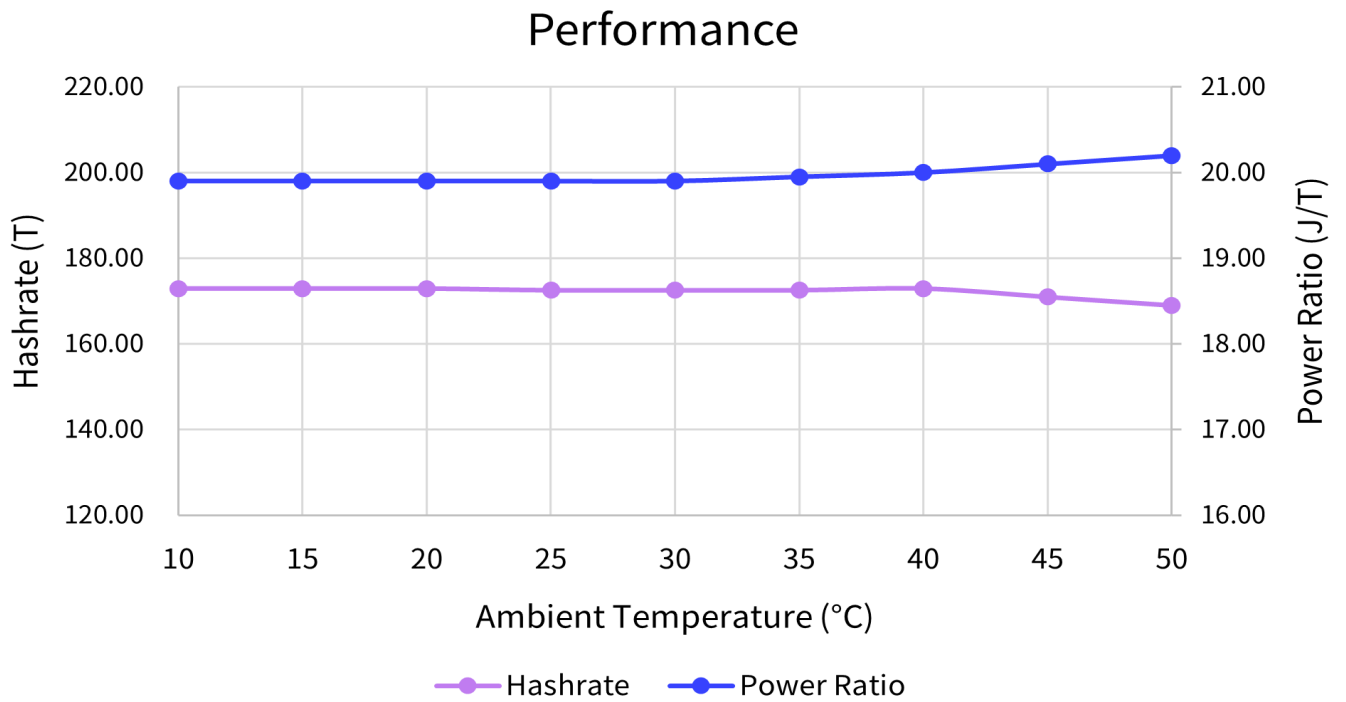
Air Cooling



SPECIFICATION

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

PERFORMANCE



Prototype data for reference only.