



S23

Product Manual

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BITMAIN

BITMAIN TECHNOLOGIES INC.

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1.Specification

Product Glance	Value
Model	S23
Version	(305T-10)
Crypto algorithm/coins	SHA256 BTC/BCH/BSV
Typical Hashrate, TH/s ⁽¹⁻¹⁾	305
Power on wall @25°C ⁽¹⁻²⁾ , Watt ⁽¹⁻¹⁾	3355
Power efficiency on wall@25°C ⁽¹⁻²⁾ , J/TH ⁽¹⁻¹⁾	11

Detailed Characteristics	Value		
Power supply			
Phase	1		
Power supply AC input voltage ⁽²⁻¹⁾ , Volt	220~277		
Power supply AC Input Frequency Range, Hz	50~60		
Power supply AC Input current ⁽²⁻²⁾ , Amp	20		
Hardware Configuration			
Network connection mode	RJ45 Ethernet 10/100M		
Server size (Length*Width*Height, w/o package), mm	450*219*293		
Server size (Length*Width*Height, with package), mm	630*350*430		
Net weight, kg	20.6		
Gross weight, kg	23.1		
Nosie ⁽²⁻³⁾ @30℃,dBA	76		
Airflow ⁽²⁻⁴⁾ , CFM	Min.	Typ.	Max.
	510	527	545
Environment Requirements			
Operation temperature,℃	-20~45		
Storage temperature, ℃	-20~70		
Operation humidity(no condensation), RH	10%~90%		
Operation altitude ⁽²⁻⁵⁾ , m	≤2000		

NOTE:

(1-1) The Hashrate value, Power on wall, and Power efficiency on wall are all typical values. The actual Hashrate value fluctuates by ±3%, and the actual Power on wall and Power efficiency on wall fluctuate by ±5%.

(1-2) Inlet air temperature.

(2-1) Caution: Wrong input voltage may probably cause server damaged.

(2-2) Single-phase AC input 20A.

(2-3) Max condition: Fan is under max RPM(rotation per minute).

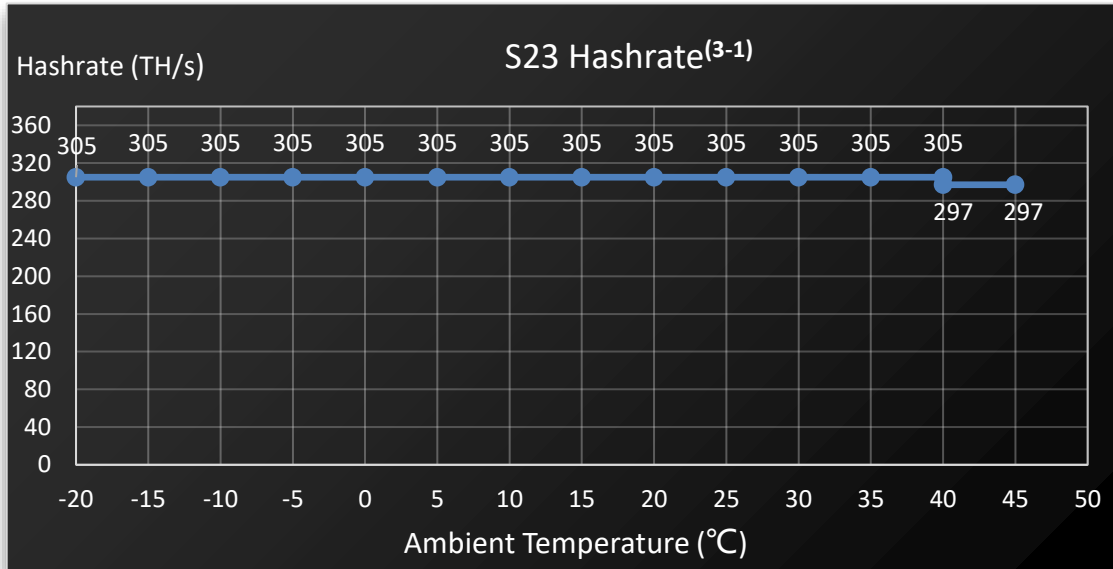
(2-4) When the server is dusty or the environment is poorly ventilated, the server airflow will reduce. This may lead to server overheating and potential damage. When designing external heat dissipation conditions, the maximum airflow should be taken into account,

and at least 10% airflow margin should be reserved.

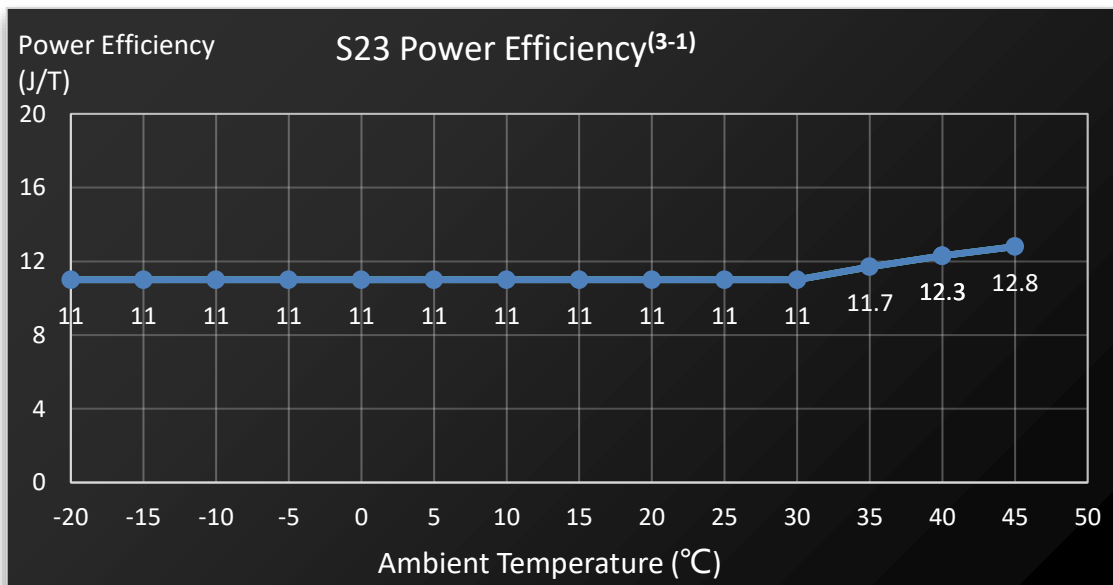
(2-5) When the server is used at an altitude from 900m to 2000m, the highest operating temperature decreases by 1°C for every increase of 300m.

2. Performance Curves

(1) Hashrate vs. Ambient Temperature



(2) J/T vs. Ambient Temperature



Notes:

(3-1) The hashrate value, and power efficiency on wall are all typical values. The actual hashrate value fluctuates by $\pm 3\%$, and the actual power efficiency on wall fluctuate by $\pm 5\%$.