



S19k Pro

Product Manual

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BITMAIN

BITMAIN TECHNOLOGIES INC.

1.Specification

Product Glance	Value			
Model	S19k Pro			
Version	K1-10			
Crypto algorithm/coins	SHA256 BTC/BCH/BSV			
Typical hashrate, TH/s ⁽¹⁻¹⁾	120 ⁽¹⁻²⁾ / 136 ⁽¹⁻³⁾	115/131	110/126	105/121
Power on wall @25°C ⁽¹⁻⁴⁾ , Watt ⁽¹⁻¹⁾	2760 ⁽¹⁻²⁾ / 3672 ⁽¹⁻³⁾	2645/3537	2530/3402	2415/3267
Power efficiency on wall @25°C ⁽¹⁻⁴⁾ , J/TH ⁽¹⁻¹⁾	23.0 ⁽¹⁻²⁾ / 27.0 ⁽¹⁻³⁾			

Detailed Characteristics	Value
Power supply	
Phase	1
Input voltage, Volt ⁽²⁻¹⁾	200~240
Input frequency range, Hz	50~60
Maximum input current, Amp	20
Hardware Configuration	
Network connection mode	RJ45 Ethernet 10/100M
Server size (Length*Width*Height, w/o package), mm	400*195*290
Server size (Length*Width*Height, with package), mm	570*316*430
Net weight, kg	12.85~14.85
Gross weight, kg	14.5~16.5
Noise @30°C, dba ⁽²⁻²⁾	72
Environment Requirements	
Operation temperature, °C	0~45
Storage temperature, °C	-20~70
Operation humidity, RH	10%~90%(non-condensing)
Operation altitude, m ⁽²⁻³⁾	≤2000

Notes:

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

(1-2) Hashrate value、Power consumption、J/T in NEM.

(1-3) Hashrate value、Power consumption、J/T in HEM. Under high temperatures, HEM exhibits a greater increase in both power consumption and J/T compared to NEM.

(1-4) Inlet air temperature.

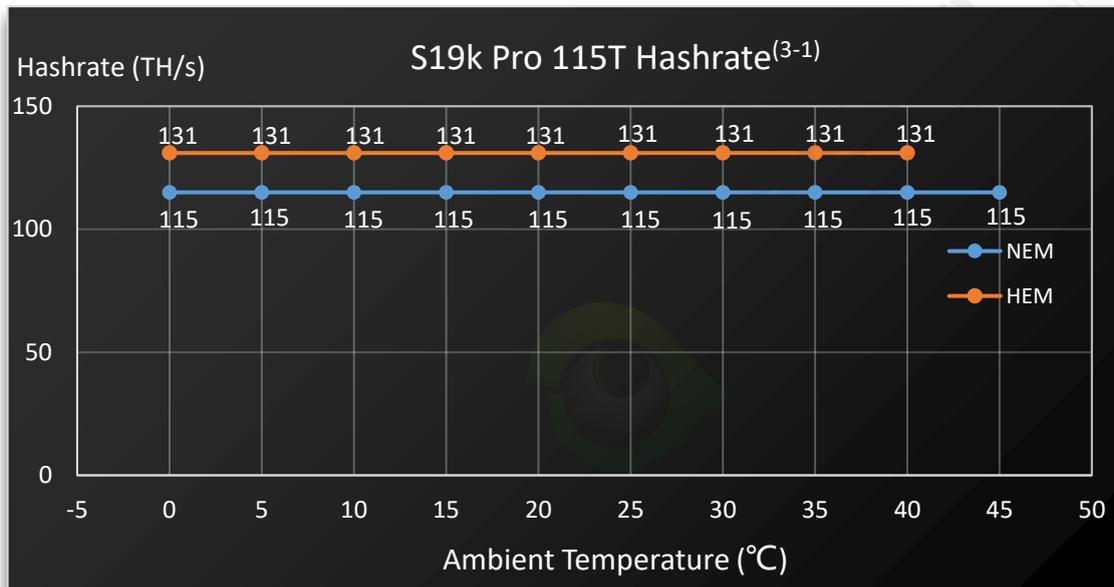
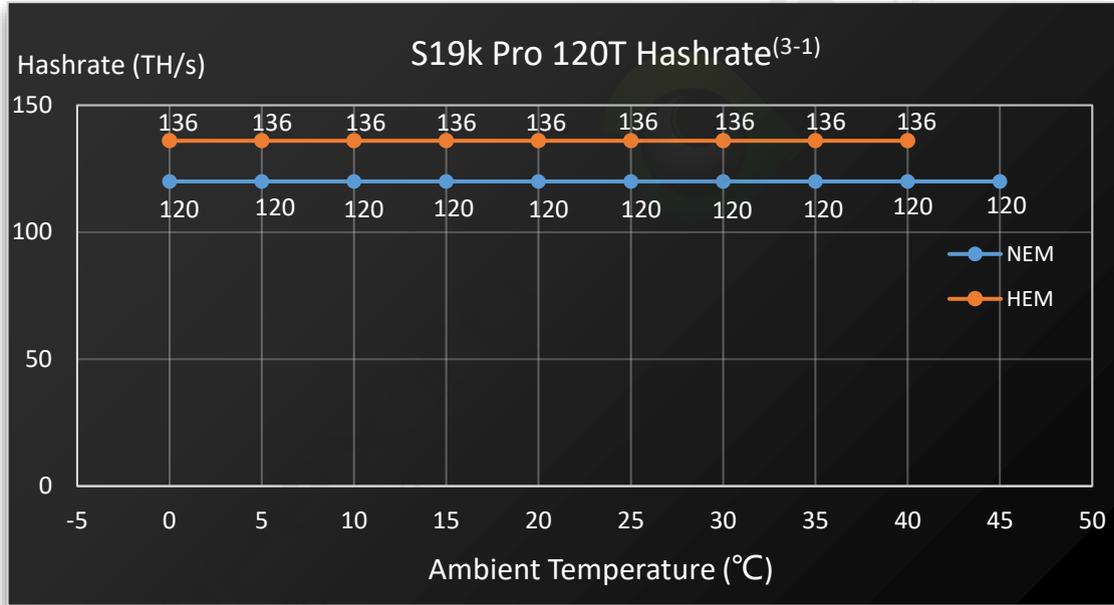
(2-1) Caution: Wrong input voltage may probably cause server damaged.

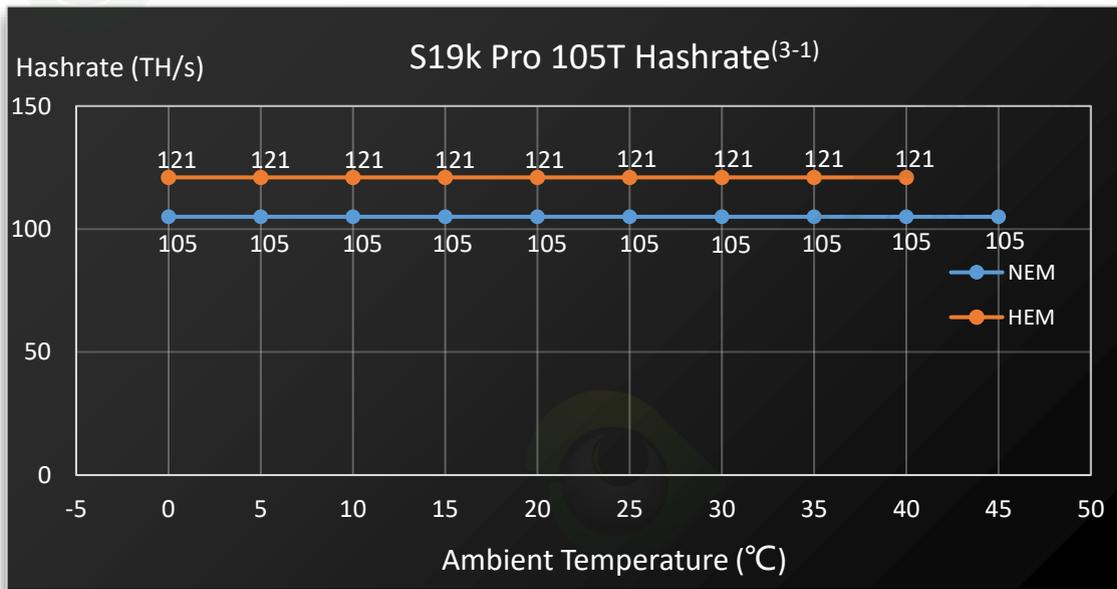
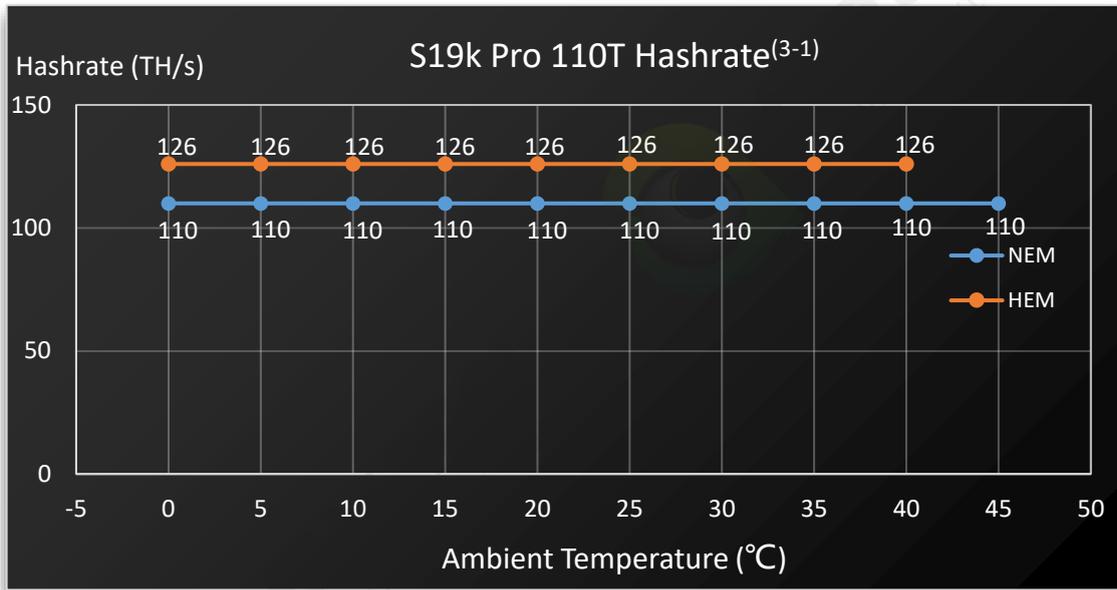
(2-2) Max condition: Fan is under max RPM(rotation per minute).

(2-3) 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.

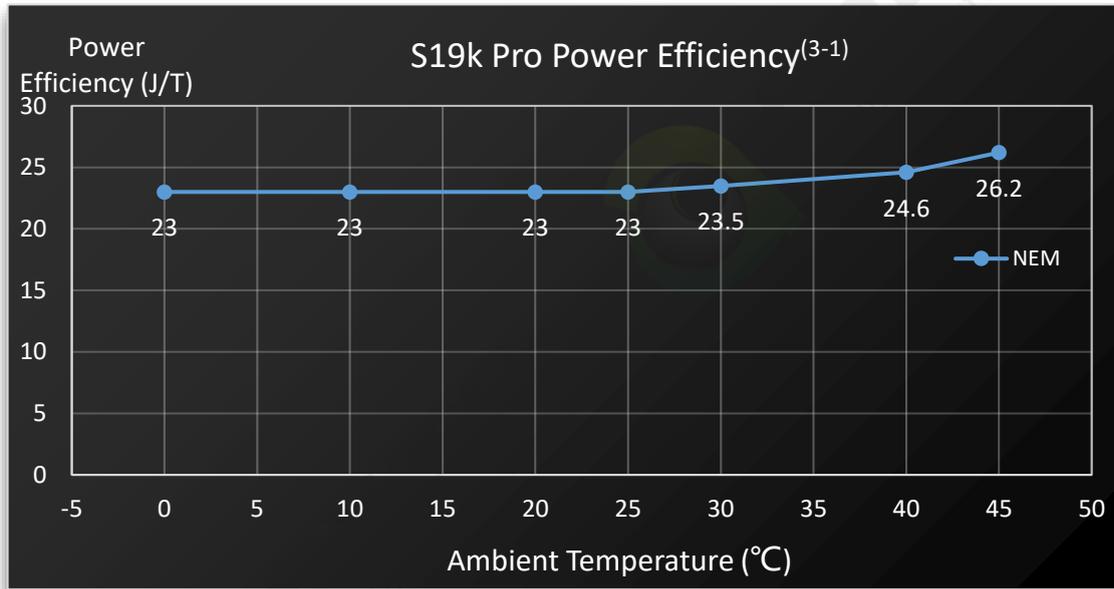
2. Performance Curves

(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 $\pm 5\%$.