



# S21 XP+ Hyd.

Product Manual

Nov. 2025

**BITMAIN**

BITMAIN TECHNOLOGIES INC.

# 1. Specification

Product Glance	Value			
Model	S21 XP+ Hyd.			
Version	520T-10	500T-10	480T-10	460T-10
Crypto algorithm/coins	SHA256   BTC/BCH/BSV			
Typical Hashrate, TH/s <sup>(1-1)</sup>	520	500	480	460
Power on wall @35°C <sup>(1-2)</sup> , Watt <sup>(1-1)</sup>	5720	5500	5280	5060
Power efficiency on wall@35°C <sup>(1-2)</sup> , J/TH <sup>(1-1)</sup>	11.0			

Detailed Characteristics	Value
<b>Power supply</b>	
Phase	3
Input voltage, Volt <sup>(2-1)</sup>	380~415
Input frequency range, Hz	50~60
Input max current, Amp	12
<b>Hardware configuration</b>	
Network connection mode	RJ45 Ethernet 10/100M
Server size (Length*Width*Height, w/o package), mm	430*176*208
Server size (Length*Width*Height, with package), mm	570*316*430
Net weight, kg	16.2
Gross weight, kg	18.3
<b>Environment requirements</b>	
Inlet coolant temperature, °C	20~50
Coolant flow, L/min	8.0~10.0
Coolant pressure, bar	≤3.5
Working coolant <sup>(2-2)</sup>	Antifreeze/ Pure water/Deionized water
Coolant pH value	Antifreeze: 7.0~9.0 Prue water: 6.5~7.5 Deionized water: 8.5~9.5
Diameter of coolant pipe connector, mm	OD10
Storage temperature, °C	-20~70
Operation humidity(non-condensing), RH	10~90%

## Notes:

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

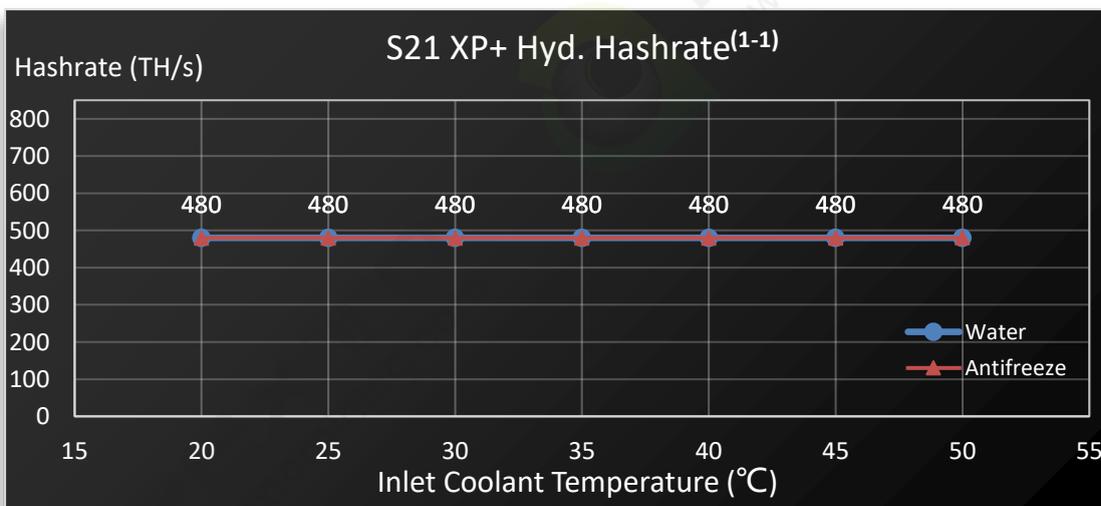
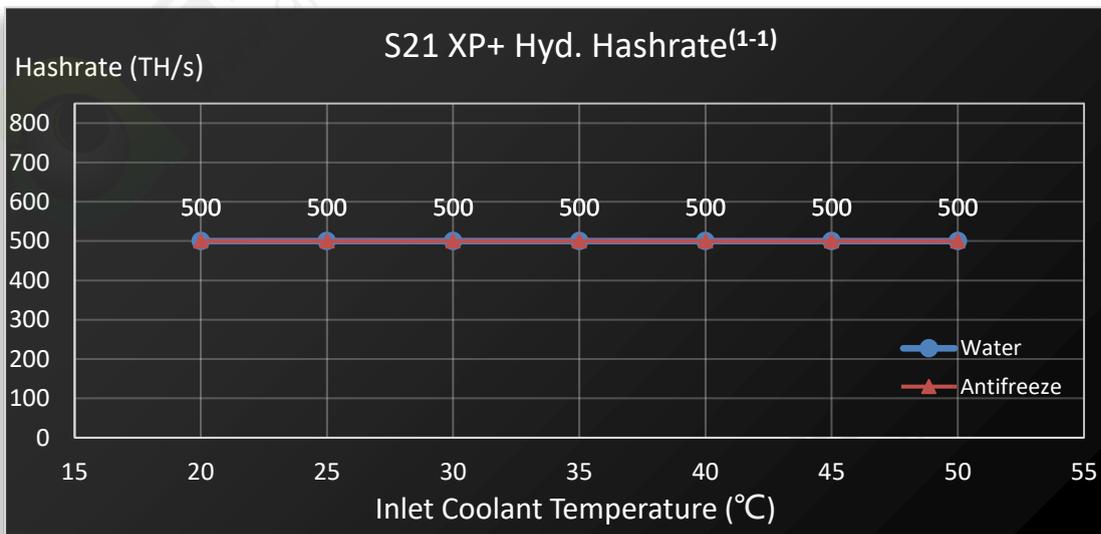
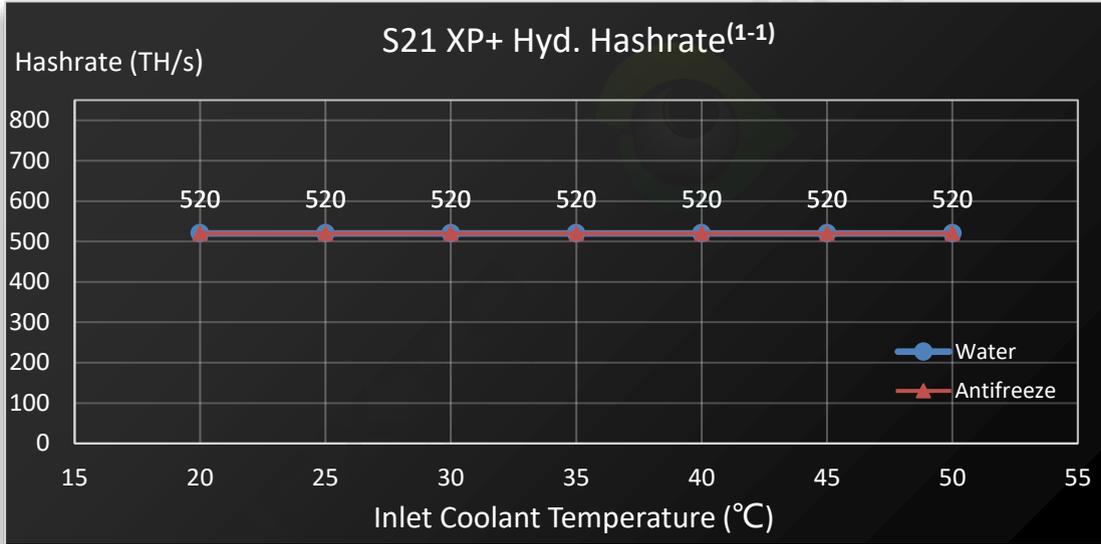
(1-2) Inlet coolant temperature.

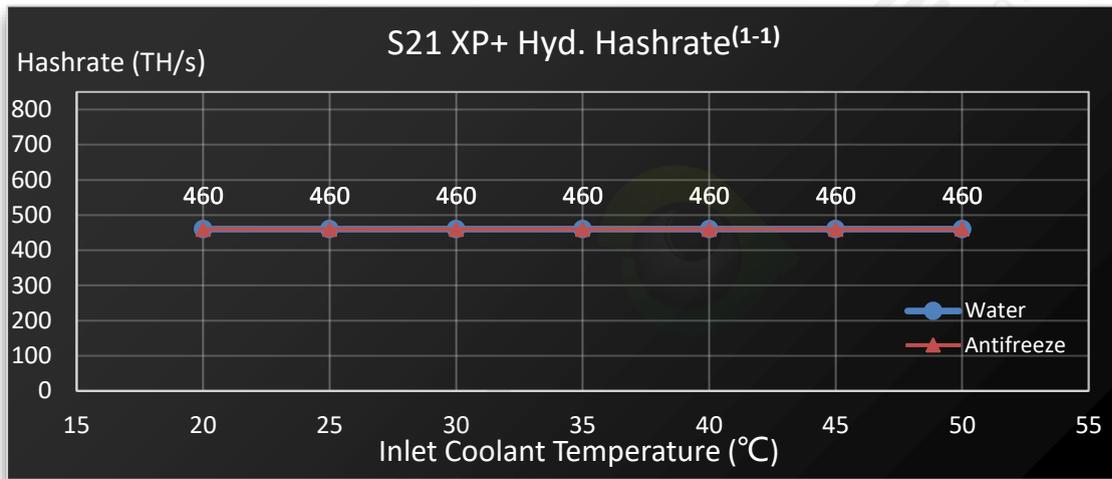
(2-1) Caution: Wrong input voltage may cause server damaged.

(2-2) For detailed working coolant use and maintenance instructions, please refer to "ANTSPACE HK3 Water Cooling Container & Dry-Wet Tower Product Manual", Chapter 9, Article 3, Point 6, "Maintenance of Coolant"!

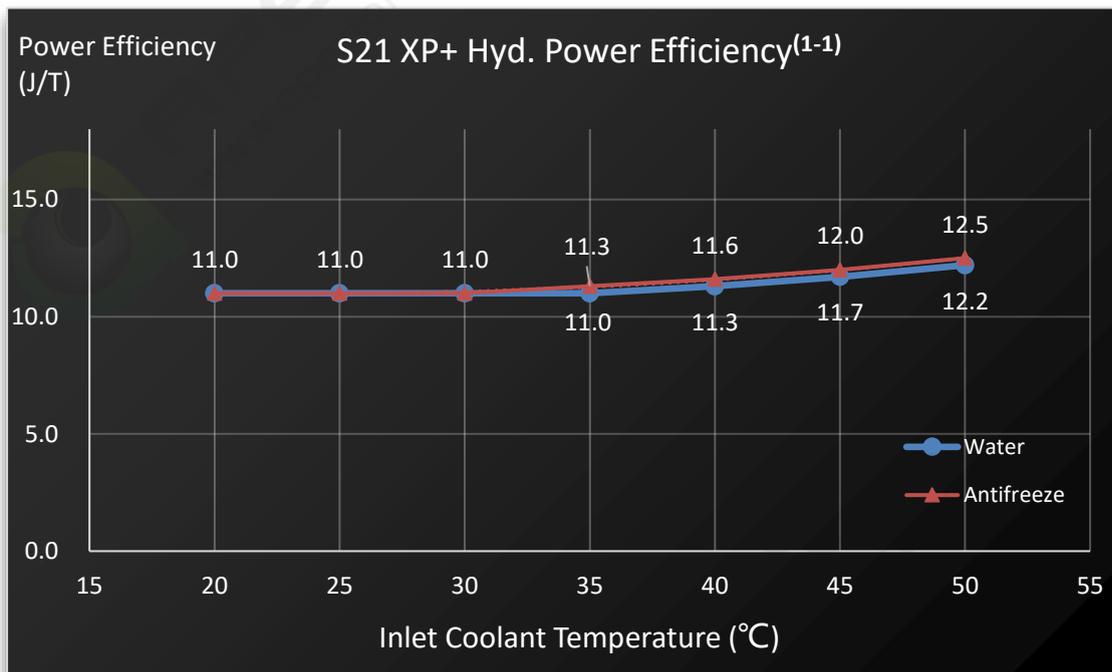
## 2. Performance Curve

### (1) Hashrate vs. Inlet Coolant Temperature





**(2) Power Efficiency vs. Inlet Coolant Temperature**



(1-1) 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  $\pm 5\%$ .