

# S21 Hyd.

**Product Manual** 

Sep. 2023





### 1. Specification

<b>Product Glance</b>	Value		
Model	S21 Hyd.		
Version	m0-10		
Crypto algorithm/coins	SHA256 BTC/BCH		
Typical Hashrate, <b>TH/s</b> <sup>(1-1)</sup>	335		
Power on wall @35°C <sup>(1-2)</sup> , <b>Watt</b> <sup>(1-1)</sup>	5360		
Power efficiency on wall@35°C(1-2), <b>J/TH</b> (1-1)	16.0		

<b>Detailed Characteristics</b>	Value	
Power supply		
Power supply AC input voltage, <b>Volt</b> <sup>(2-1)</sup>	380~415V AC	
Power supply AC Input Frequency Range, <b>Hz</b>	50~60	
Power supply AC Input current, <b>Amp</b> <sup>(2-2)</sup>	12	
Hardware configuration		
Network connection mode	RJ45 Ethernet 10/100M	
Server size (Length*Width*Height, w/o package), mm	339*163*207	
Server size (Length*Width*Height, with package), mm	570*316*430	
Net weight, <b>kg</b>	12.3	
Gross weight, kg	13.6	
Environment requirements		
Inlet water temperature, °C	NEM <sup>(2-3)</sup>	35
	HEM1 <sup>(2-4)</sup>	45
	HEM2 <sup>(2-4)</sup>	50
Water flow, <b>L/min</b>	8.0~10.0	
Water pressure <b>bar</b>	≤3.5	
Working fluid <sup>(2-5)</sup>	Deionized water/Pure water	
Liquid PH	8.5~9.5	
Diameter of water pipe connector, <b>mm</b>	DN10	
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 water temperature.
- (2-1) Caution: Wrong input voltage may cause server damaged.
- (2-2) Three-phase AC input, 10 A per wire.
- (2-3) NEM: Normal Energy Mode. If the inlet water temperature is lower than 20 °C, the miner cannot be started.
- (2-4) HEM: High Energy Mode.
- (2-5) If the water conductivity is  $\geq 100 \, \mu s/cm$ , the fluid must be replaced. The water conductivity is less than 20  $\mu s/cm$  when the system is running at the first time.



## 2. Working Mode

Working Mode	NEM	HEM1	HEM2
Inlet water temperature, °C(3-1)	35	45	50
Hashrate, TH/s	335	335	335
Power on wall, <b>Watt</b>	5360	5890	5960
Power efficiency on wall, J/TH	16.0	17.6	17.8

#### **Notes:**

(3-1) For the external dry cooler (EC2-DT),

- if the outlet water temperature is 35°C, the maximum ambient temperature is 30°C;
- if the outlet water temperature is 45°C, the maximum ambient temperature is 40°C;
- if the outlet water temperature is 50°C, the maximum ambient temperature is 45°C.