

Test Plan – HyperLiquid Price Client

TC01 – Normal Case (200 OK)

Steps

Given the price API is available

And the API returns a valid positive numeric price

When the system requests the price

Then the price is returned as a float

Expected Result

The system returns the correct price as a float and allows trading or rebalance to proceed normally.

Severity

High – should alert and fail safe

TC02 – API Down (500 Error with Retry)

Steps

Given the price API is unavailable

And the API returns a server error

When the system requests the price

Then the system retries the request

And trading is blocked if all retries fail

Expected Result

The system retries the request up to the configured limit and raises an error after retry exhaustion, blocking trading or rebalance.

Severity

Critical – must stop trading or block rebalance

TC03 – Invalid Price Data

Steps

Given the price API responds successfully

When the returned price is negative, null, or missing

Then the price is rejected

And trading is blocked

Expected Result

The system raises an error and blocks trading or rebalance to prevent the use of invalid price data.

Severity

Critical – must stop trading or block rebalance

TC04 – Rate Limiting (429)

Steps

Given the price API rate limits the client

When the system requests the price

Then the request fails fast

And trading is paused until retry is allowed

Expected Result

The system raises a rate limit error and prevents trading or rebalance until a retry is permitted.

Severity

High – should alert and fail safe

TC05 – Network Timeout

Steps

Given the network is unstable

When the price request times out

Then the system retries the request
And trading is blocked if all retries fail

Expected Result

The system raises an error after retry exhaustion and blocks trading or rebalance due to the inability to retrieve a reliable price.

Severity

Critical – must stop trading or block rebalance

TC06 – Invalid JSON Response

Steps

Given the price API returns a malformed response
When the system attempts to parse the response
Then the response is rejected
And trading is blocked

Expected Result

The system raises an error and blocks trading or rebalance because the response cannot be safely parsed.

Severity

Critical – must stop trading or block rebalance

TC07 – Retry Exhaustion

Steps

Given repeated failures occur when requesting the price
When all retry attempts are exhausted
Then a retry exhaustion error is raised
And trading is blocked

Expected Result

The system raises a final error indicating retry exhaustion and prevents trading or rebalance from proceeding.

Severity

Critical – must stop trading or block rebalance