

Key ConvexValue Metrics for Darkpool Analysis

Based on the provided ConvexValue data parameters, the following metrics are most valuable for identifying and analyzing darkpool activity:

Primary Metrics

1. **gxi (Gamma multiplied by Open Interest)**
2. Critical for identifying key support/resistance levels
3. Large concentrations indicate price levels where market makers must hedge
4. Darkpool transactions often occur near these levels to minimize market impact
5. **dxi (Delta multiplied by Open Interest)**
6. Reveals directional hedging pressure
7. Significant imbalances can indicate institutional positioning
8. Changes in dxi can signal darkpool activity completion
9. **volmbs metrics (Volume of Buys minus Sells)**
10. Available across different timeframes (5m, 15m, 30m, 60m)
11. Tracks momentum and flow
12. Sudden divergences between price action and volmbs can indicate darkpool activity
13. **charmxi (Charm multiplied by Open Interest)**
14. Measures expiration-related delta decay effects
15. Important for identifying time-sensitive darkpool positioning
16. Often correlates with end-of-day or pre-expiration darkpool activity
17. **vannaxi (Vanna multiplied by Open Interest)**
18. Assesses volatility regime changes
19. Darkpool participants often exploit vanna effects for positioning
20. Key for identifying volatility-sensitive darkpool levels

21. **vommaxoi (Vomma multiplied by Open Interest)**

22. Measures volatility of volatility exposure

23. Important for identifying complex volatility-based darkpool strategies

24. Often indicates sophisticated institutional positioning

25. **gxvolm (Gamma multiplied by Volume)**

26. Identifies active hedging zones

27. Spikes can indicate real-time darkpool execution

28. Useful for detecting ongoing darkpool activity

29. **value_bs (Buy Value minus Sell Value)**

30. Measures directional sentiment

31. Large imbalances can indicate institutional positioning

32. Useful for confirming darkpool activity intent

Secondary Metrics

1. **flownet**

2. (Value of Call Buys + Value of Put Sells - Value of Call Sells - Value of Put Buys)

3. Comprehensive measure of directional sentiment

4. Useful for identifying complex darkpool strategies involving both calls and puts

5. **vflowratio**

- (Volume of Call Buys + Volume of Put Sells) / (Volume of Put Buys + Volume of Call Sells)
- Ratio-based measure of directional sentiment
- Useful for normalizing flow data across different market conditions

6. **put_call_ratio**

- Traditional sentiment indicator
- Extreme values often coincide with darkpool positioning
- Useful as a confirmatory metric

7. **call_gxoi and put_gxoi**

- Gamma multiplied by Open Interest for calls and puts separately
- Allows for more granular analysis of options positioning

- Helps identify option-type specific darkpool activity

Timeframe-Specific Metrics

1. **volmbs_5m, volmbs_15m, volmbs_30m, volmbs_60m**

- Volume of Buys minus Sells across different timeframes
- Useful for identifying the timeframe of darkpool activity
- Divergences across timeframes can indicate sophisticated darkpool execution strategies

2. **valuebs_5m, valuebs_15m, valuebs_30m, valuebs_60m**

- Value of Buys minus Sells across different timeframes
- Provides dollar-weighted flow information
- Useful for identifying high-value darkpool transactions

Call/Put Specific Metrics

1. **value_call_bs and value_put_bs**

- Value of Buys minus Sells for calls and puts separately
- Helps identify option-type specific darkpool positioning
- Useful for complex darkpool strategies involving both calls and puts

2. **volm_call_bs and volm_put_bs**

- Volume of Buys minus Sells for calls and puts separately
- Provides contract-count flow information by option type
- Useful for identifying option-type specific darkpool activity