

Overview

Palladium LLC, is a registered investment adviser and was founded in October 2011.

As of December 2021, \$752 Million Assets Under Management.

Independent, employee-owned firm.

Palladium is an investment manager with a focus on transparency and risk management.

Equity Market Capitalization for Palladium Opportunistic Endowment Current

Category	Weight
Large Cap	45.45%
Mid Cap	42.89%
Small Cap	11.66%

Stock Sectors for Palladium Opportunistic Endowment Current

Category	Weight
Basic Materials	4.62%
Consumer Cyclical	8.06%
Financial Services	11.13%
Real Estate	7.04%
Consumer Defensive	5.96%
Healthcare	16.13%
Utilities	5.49%
Communication Services	6.25%
Energy	3.40%
Industrials	9.24%
Technology	22.68%

Key Attributes

Diversified Equity Risk

Liquidity & Transparency

Capital Appreciation

Low Expenses & Fees

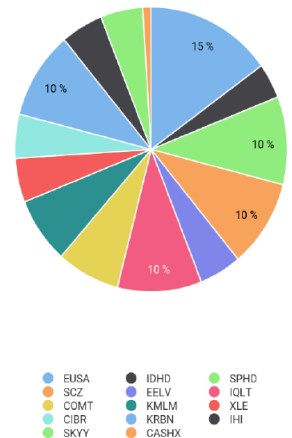
Strategy Description

- The Opportunistic Growth Strategy seeks to maximize capital appreciation through significant equity exposure.
- This strategy is typically appropriate for an investor with a long-term investment horizon and a high tolerance for risk, seeking significant capital appreciation.
- The portfolio may be concentrated in a smaller number of holdings and sectors.

Asset Allocation

Palladium Opportunistic Endowment Current

Ticker	Name	Allocation
EUSA	iShares MSCI USA Equal Weighted ETF	15.00%
IDHD	Invesco S&P Intl Dev HI Div Low Vol ETF	4.00%
SPHD	Invesco S&P 500 High Div Low Vol ETF	10.00%
CASHX	Cash	1.00%
SCZ	iShares MSCI EAFE Small-Cap ETF	10.00%
EELV	Invesco S&P Emerging Markets Low Vol ETF	5.00%
IQLT	iShares MSCI Intl Quality Factor ETF	10.00%
COMT	iShares GSCI Comd Dyn Roll Stgy ETF	7.50%
KMLM	KFA Mount Lucas Strategy ETF	7.50%
XLE	Energy Select Sector SPDR ETF	5.00%
CIBR	First Trust NASDAQ Cybersecurity ETF	5.00%
KRBN	KraneShares Global Carbon ETF	10.00%
IHI	iShares US Medical Devices ETF	5.00%
SKYY	First Trust Cloud Computing ETF	5.00%



PCT PORTFOLIO SEGMENTS / CONSTITUENTS

- 44.0%** **Equity: Low-Cost, Systematic, and Factor Exposure**
 - Systematic Equal Wtd U.S. Equity
 - Systematic U.S. Equity Hi Div Low Vol
 - Systematic Non-U.S. Equity
 - Systematic Non U.S. Equity Hi Div Low Vol
- 1.0%** **Fixed Income / Cash: Seeks to Preserve Capital and Generate Income**
 - Liquid Money Markets
- 25.0%** **Alternative: Anticipated Risk Mitigation with Alpha Opportunities**
 - Commodities
 - Carbon Credits
 - Systematic Managed Futures
- 30.0%** **Opportunistic: Reflects Ideas Based on 12-24 Month Forecasts**
 - Clean Technology
 - Cyber Security
 - Emerging Market Equity
 - Cloud Computing
 - Medical Devices
 - Non US Small Cap Eq

Source: Morningstar & Portfolio Visualizer

*Holdings are subject to change and may be different than at the time of this report or based on program constraints.

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Portfolio Characteristics

Holdings Based Style Analysis for Palladium Opportunistic Endowment Current

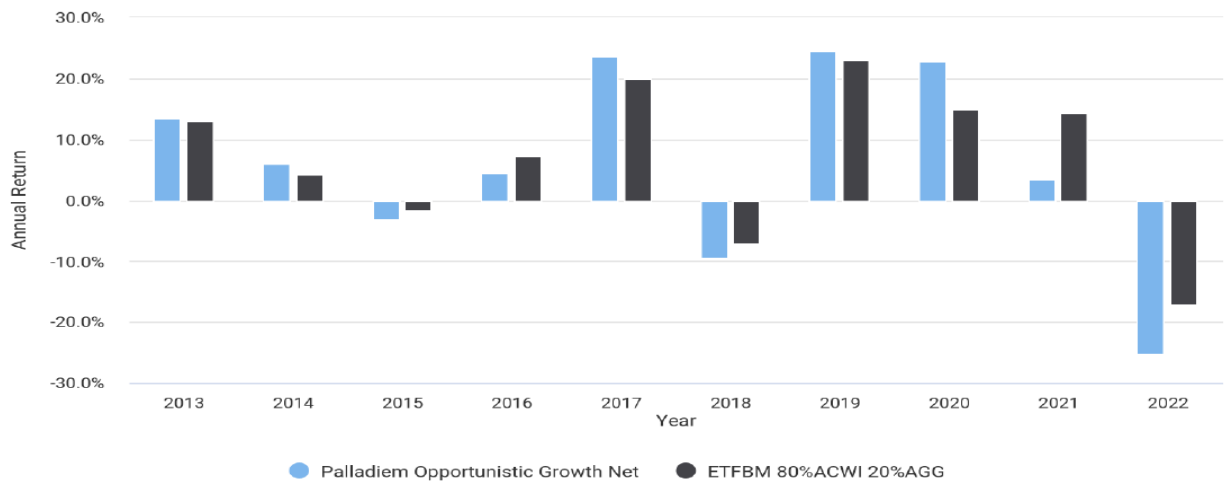
Ticker	Name	Category	Weight	SEC Yield	Expense Ratio		P/E
					Net	Gross	
EUSA	iShares MSCI USA Equal Weighted ETF	Large Blend	15.00%	1.72%	0.09%	0.09%	16.89
IDHD	Invesco S&P Intl Dev Hi Div Low Vol ETF	Foreign Large Value	4.00%	4.94%	0.30%	0.30%	11.89
SPHD	Invesco S&P 500 High Div Low Vol ETF	Large Value	10.00%	4.42%	0.30%	0.30%	15.13
CASHX	Cash	Cash	1.00%				
SCZ	iShares MSCI EAFE Small-Cap ETF	Foreign Small/Mid Blend	10.00%	2.52%	0.39%	0.39%	10.94
EELV	Invesco S&P Emerging Markets Low Vol ETF	Diversified Emerging Mkts	5.00%	4.19%	0.29%	0.29%	10.89
IQLT	iShares MSCI Intl Quality Factor ETF	Foreign Large Blend	10.00%	2.65%	0.30%	0.30%	14.27
COMT	iShares GSCI Comd Dyn Roll Stgy ETF	Commodities Broad Basket	7.50%	3.83%	0.48%	0.48%	4.69
KMLM	KFA Mount Lucas Strategy ETF	Systematic Trend	7.50%		0.92%	0.92%	9.55
XLE	Energy Select Sector SPDR ETF	Equity Energy	5.00%	3.27%	0.10%	0.10%	8.68
CIBR	First Trust NASDAQ Cybersecurity ETF	Technology	5.00%	0.53%	0.60%	0.60%	27.40
KRBN	KraneShares Global Carbon ETF	Commodities Focused	10.00%		0.78%	0.78%	
IHI	iShares US Medical Devices ETF	Health	5.00%	0.47%	0.39%	0.39%	32.37
SKYY	First Trust Cloud Computing ETF	Technology	5.00%	0.43%	0.60%	0.60%	

Growth Chart



The chart represents the growth of a hypothetical investment of \$10,000 in the strategy since inception and reflects the reinvestment of dividends and income. The chart does not represent an actual investment and is not intended to imply future results.

Annual Returns



Source: Portfolio Visualizer (Model Returns)

* Inception Date: 1/1/2012

Palladium strategy (net 0.55% fee). Benchmarks: 80% iShares MSCI All Country World Index ETF (ACWI net 0.32% fee), and 20% iShares Bloomberg US Aggregate Bond Index ETF (AGG net 0.03% fee). Benchmarks represent asset classes that may be included in the strategy and are presented to provide perspective on the strategy's historical risk, as measured by standard deviation, in relation to these asset classes. ACWI (ETF) represents the MSCI All Country World Equity Index and the AGG (ETF) represents the Bloomberg Barclays Capital US Aggregate Bond index. You cannot invest directly in an index.

Palladium, LLC – 1 Town Place, Suite 200, Bryn Mawr, PA 19010 – (484)320-8809 - info@palladium.com - www.palladium.com

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Risk and Return Metrics (Jul 2013 - Dec 2022)

Metric	Palladiem Opportunistic Growth Net	ETFBM 80%ACWI 20%AGG
Arithmetic Mean (monthly)	0.50%	0.60%
Arithmetic Mean (annualized)	6.12%	7.48%
Geometric Mean (monthly)	0.42%	0.54%
Geometric Mean (annualized)	5.10%	6.73%
Standard Deviation (monthly)	4.02%	3.43%
Standard Deviation (annualized)	13.91%	11.87%
Downside Deviation (monthly)	2.78%	2.29%
Maximum Drawdown	-34.69%	-23.49%
Stock Market Correlation	0.95	0.97
Beta (*)	1.13	1.00
Alpha (annualized)	-2.19%	-0.00%
R Squared	92.46%	100.00%

Palladiem Opportunistic Growth Net Returns

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2013							5.03%	-2.71%	4.19%	2.93%	1.55%	1.92%	13.42%
2014	-3.46%	4.12%	-0.11%	0.17%	2.07%	2.44%	-1.37%	3.10%	-3.29%	1.90%	1.34%	-0.84%	5.90%
2015	-1.02%	4.36%	-1.23%	1.39%	0.43%	-2.28%	0.25%	-6.33%	-3.12%	6.61%	0.00%	-1.64%	-3.15%
2016	-6.39%	-0.78%	6.70%	0.77%	0.85%	-0.16%	3.89%	-0.32%	0.83%	-2.46%	0.92%	1.03%	4.42%
2017	3.27%	2.72%	1.26%	1.57%	2.04%	0.36%	2.41%	0.57%	1.90%	2.21%	1.48%	1.74%	23.74%
2018	5.77%	-3.69%	-1.27%	-0.04%	1.44%	-0.84%	2.32%	1.41%	-0.17%	-8.50%	1.51%	-7.00%	-9.52%
2019	8.79%	3.04%	1.09%	2.81%	-6.59%	7.22%	-0.33%	-2.68%	2.39%	2.29%	2.30%	2.64%	24.47%
2020	-1.25%	-6.70%	-13.15%	9.90%	4.29%	3.57%	5.94%	6.29%	-1.86%	-0.17%	11.56%	5.02%	22.77%
2021	2.22%	-0.87%	0.06%	1.79%	0.82%	2.52%	-0.56%	2.88%	-4.73%	4.37%	-5.23%	0.48%	3.33%
2022	-7.39%	-3.12%	-0.76%	-7.63%	-0.54%	-7.32%	2.90%	-2.52%	-9.29%	6.43%	4.92%	-3.00%	-25.28%

Annual return for 2013 is from 07/01/2013 to 12/31/2013

ETFBM 80%ACWI 20%AGG Returns

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2013							3.72%	-2.00%	4.66%	3.33%	1.19%	1.53%	12.93%
2014	-3.40%	4.24%	0.43%	1.11%	1.84%	1.44%	-1.21%	2.29%	-2.78%	1.18%	1.23%	-1.87%	4.32%
2015	-0.64%	4.23%	-1.09%	2.23%	-0.09%	-2.28%	0.83%	-5.51%	-2.59%	6.14%	-0.50%	-1.73%	-1.54%
2016	-3.99%	-0.82%	6.09%	1.12%	0.27%	0.35%	3.12%	0.23%	0.76%	-1.69%	0.31%	1.62%	7.28%
2017	2.37%	2.14%	1.07%	1.47%	1.90%	0.63%	2.25%	0.51%	1.39%	1.74%	1.59%	1.25%	19.91%
2018	4.34%	-3.78%	-1.06%	0.14%	0.51%	-0.44%	2.45%	0.67%	0.36%	-6.08%	1.37%	-5.32%	-7.14%
2019	6.62%	1.95%	1.69%	2.70%	-4.47%	5.41%	2.09%	-1.21%	1.67%	2.23%	1.86%	2.74%	22.94%
2020	-0.74%	-5.67%	-10.83%	8.21%	4.21%	2.48%	4.55%	4.66%	-2.38%	-1.89%	9.65%	3.77%	15.03%
2021	-0.40%	1.53%	2.05%	3.54%	1.22%	1.17%	0.95%	1.70%	-3.57%	4.31%	-1.79%	3.05%	14.37%
2022	-4.04%	-2.68%	0.99%	-7.22%	0.51%	-6.78%	6.16%	-4.10%	-8.34%	4.82%	7.43%	-3.87%	-17.17%

Annual return for 2013 is from 07/01/2013 to 12/31/2013

Source: Portfolio Visualizer (Model Returns)

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