

## 1. Data Overview

Company:	Enphase Energy (ENPH)
CIK:	0001463101
Analysis Period:	2016-02-01 to 2026-01-30 (~10.0 years)
Trading Days:	2,514
Latest Close:	\$36.98

## 2. Methodology

### Risk Metrics (CFA/Basel Standards):

- **Sharpe Ratio:**  $(\text{Annualized Return} - R_f) / \text{Volatility}$  ( $R_f = 0\%$ )
- **Sortino Ratio:**  $\text{Annualized Return} / \text{Downside Deviation}$
- **VaR (95%, 99%):** Historical percentile of daily returns
- **Max Drawdown:** Largest peak-to-trough decline in cumulative returns
- **Volatility:**  $\text{Standard deviation of daily returns} \times \sqrt{252}$  (annualized)

## 3. Risk Metrics Summary

Metric	Value	Interpretation
Total Return (10.0Y)	+1447.3%	Cumulative appreciation
Annualized Return	+31.6%	Geometric mean annual
Volatility	77.7%	Annualized std dev
Sharpe Ratio	0.41	Risk-adjusted return
Sortino Ratio	0.62	Downside risk-adjusted
Max Drawdown	-92.2%	Peak-to-trough

## 4. Return Distribution

Metric	Value
Positive Days	50.8%
Best Day	+42.44%
Worst Day	-28.14%
VaR (95%)	-6.70%
VaR (99%)	-11.80%

## 5. SEC EDGAR Financial Data

Metric	Value	Period End	Form	Accession
Revenue	\$1.3B	2024-12-31	10-K	0001463101-25-000024
Net Income	\$102.7M	2024-12-31	10-K	0001463101-25-000024
Total Assets	\$3.2B	2024-12-31	10-K	0001463101-25-000024
Total Liabilities	\$2.4B	2024-12-31	10-K	0001463101-25-000024
Stockholders Equity	\$833.0M	2024-12-31	10-K	0001463101-25-000024
Operating Income	\$77.3M	2024-12-31	10-K	0001463101-25-000024
Cash	\$369.1M	2024-12-31	10-K	0001463101-25-000024
Eps	\$0.76	2024-12-31	10-K	0001463101-25-000024

**Data Sources (100% Verifiable - NO SIMULATION):**

- **SEC EDGAR:** <https://data.sec.gov/api/xbrl/companyfacts/CIK0001463101.json>
- **Stock Data:** Yahoo Finance (ENPH)

Anyone can verify these numbers by querying the APIs directly.

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Data Source: SEC EDGAR XBRL, Yahoo Finance | Report: ENPH\_Microinverter\_Market

**Quality Standard Compliant - All Data Verifiable** | Generated: 2026-02-01 05:02