



# Monolithic Power Systems, Inc. (MPWR)

Updated August 2<sup>nd</sup>, 2022 by Nikolaos Sismanis

## Key Metrics

<b>Current Price:</b>	\$486	<b>5 Year CAGR Estimate:</b>	10.5%	<b>Market Cap:</b>	\$21.6 B
<b>Fair Value Price:</b>	\$311	<b>5 Year Growth Estimate:</b>	20.0%	<b>Ex-Dividend Date:</b>	09/29/2022 <sup>1</sup>
<b>% Fair Value:</b>	157%	<b>5 Year Valuation Multiple Estimate:</b>	-8.6%	<b>Dividend Payment Date:</b>	10/15/2022
<b>Dividend Yield:</b>	0.6%	<b>5 Year Price Target</b>	\$773	<b>Years Of Dividend Growth:</b>	5
<b>Dividend Risk Score:</b>	C	<b>Retirement Suitability Score:</b>	F	<b>Rating:</b>	Buy

## Overview & Current Events

Monolithic Power Systems is a leading semiconductor company that designs, develops, and markets high-performance power solutions. The company utilizes its deep system-level and applications expertise to develop highly integrated monolithic systems used in computing and storage, automotive, industrial, communications, and consumer applications industries. Its mission is to reduce total energy consumption in its customers' systems with green, practical, and compact solutions. Monolithic Power generates around \$1.2 billion in annual revenues and is headquartered in Kirkland, Washington.

On August 1<sup>st</sup>, 2022, Monolithic Power reported its Q2-2022 results for the period ending June 30<sup>th</sup>, 2022. For the quarter, revenues grew by 57.2% year-over-year to \$461 million, once again powered by Monolithic's diversified growth strategy, technological innovation, investment in production capacity, and, importantly, broad-based market share gains. Notably, Storage and Computing revenues grew by 112% to \$122.3 million, while Enterprise Data revenues jumped to \$65.2 million, a gain of 118% versus the prior-year period. As a result of excellent market dynamics, Monolithic expects Q2 revenues in the range of \$480 million to \$500 million, suggesting year-over-year growth of 51.7% at the midpoint of this outlook.

Following strong top-line growth, adjusted EPS skyrocketed by 105% to \$2.46. Based on management's Q3 guidance, the current market fundamentals, and Monolithic's revenue growth and net income margin expansion trajectories, we now expect FY2022 adjusted EPS of \$11.50. Keep in mind that adjusted EPS is a more meaningful valuation and performance metric than GAAP EPS due to Monolithic's high stock-based compensation expenses. However, all data shown in the table below reflects normalized results as originally reported in the company's 10K with the SEC.

## Growth on a Per-Share Basis

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2027
<b>EPS</b>	\$0.45	\$0.61	\$0.92	\$0.89	\$1.30	\$1.58	\$2.49	\$2.52	\$3.67	\$5.28	<b>\$11.50</b>	<b>\$28.62</b>
<b>DPS</b>	\$1.00	---	\$0.45	\$0.80	\$0.80	\$0.80	\$1.20	\$1.60	\$2.00	\$2.40	<b>\$3.00</b>	<b>\$7.46</b>
<b>Shares<sup>2</sup></b>	34.9	37.4	38.7	39.5	40.4	41.4	42.2	43.2	44.8	45.8	<b>46.6</b>	<b>60.0</b>

Monolith's EPS has been growing rapidly over the past decade on the back of increasing demand for efficient analog semiconductor solutions. Specifically, the company features a 10-year EPS CAGR of 31.5%. Despite Monolithic's prolonged success, EPS has accelerated over the past few years, as was also the case in its most recent results. This is primarily due to the company's new cutting-edge products, which the market has welcomed with very strong demand. We anticipate EPS growth of around 20% in the medium-term, implying a significant deceleration from its current levels. This is to account for potential demand and production headwinds going forward. The ongoing supply crisis combined with a global shortage in the semiconductor industry should also ensure the company retains solid pricing leverage in the short to medium-term, which should further contribute to EPS growth.

In 2014, Monolithic initiated its quarterly dividend, which has grown with each new EPS plateau following higher

<sup>1</sup> Estimated dates based on past dividend dates

<sup>2</sup> Share count is in millions.

Disclosure: This analyst has no position in the security discussed in this research report, and no plans to initiate one in the next 72 hours.



# Monolithic Power Systems, Inc. (MPWR)

Updated August 2<sup>nd</sup>, 2022 by Nikolaos Sismanis

profitability. We expect DPS growth of around 20% in the medium-term, lower than the latest dividend hike of 25%, to be prudent. We assume that the company will retain a healthy payout ratio moving forward.

## Valuation Analysis

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Now	2027
Avg. P/E	43.9	39.5	46.0	56.2	50.0	58.2	52.6	57.5	72.8	85.2	42.3	27.0
Avg. Yld.	---	---	1.1%	1.6%	1.2%	0.9%	0.9%	1.1%	0.7%	0.5%	0.6%	1.0%

Monolithic's historical P/E has averaged around 56 due to the company's constant rapid expansion. While we believe that the ongoing multiple expansion is not unreasonable based on Monolithic's accelerated growth and profitability prospects, we are setting a medium-term fair multiple at 27. This is to account for potential headwinds caused by the cyclical nature of the semiconductor industry and the possibility for a slowdown in growth. Due to its rich valuation multiple, Monolithic's dividend payments have historically resulted in very low yields. Despite the likely rapid dividend growth, we expect dividends to remain a token of the total returns.

## Safety, Quality, Competitive Advantage, & Recession Resiliency

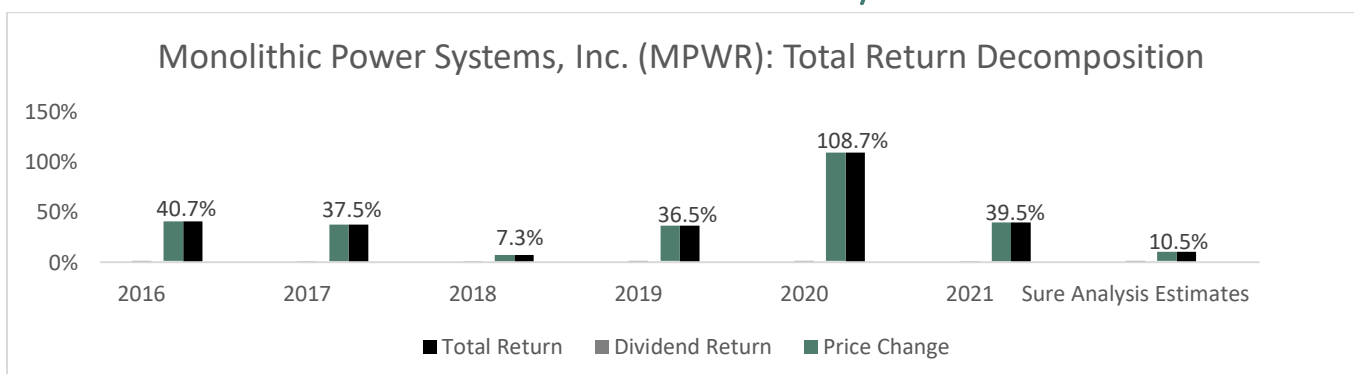
Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2027
Payout	---	---	49%	90%	62%	51%	48%	63%	54%	45%	26%	26%

We consider Monolithic's dividend very safe, not only due to the stock's healthy payout ratio, which currently stands at around 26% of its adjusted EPS, but also due to the sky-high profitability growth expectations. The company also enjoys several qualities, including excellent margins, no long-term debt on its balance sheet, and continually strong R&D spending, which should help it stay above its competitors. That being said, the analog and mixed-signal semiconductor industry is highly competitive and will most certainly remain so. The company's primary competitors include industry giants such as Analog Devices, Infineon Technologies, Maxim Integrated Products, and NXP Semiconductors, which could easily gain market share if Monolithic doesn't remain constantly innovative. On the positive side, the company has displayed fantastic recession resiliency qualities, despite the cyclical nature of semiconductors due to its mission-critical products. Sales remained robust during the Great Financial Crisis and even accelerated through the COVID-19 pandemic.

## Final Thoughts & Recommendation

Monolithic Power Systems has rewarded its shareholders with fabulous returns over the past decade, powered by spectacular top- and bottom-line growth. Instead of maturing, the company has seen accelerated growth. While Monolithic's strong growth performance is likely to persist, challenging valuation headwinds could shorten annualized returns to 10.5% through 2027, which we feel is a satisfactory level nonetheless. We continue to rate Monolithic Power Systems a buy, though note that fluxes in its growth rates can wildly swing total returns either way.

## Total Return Breakdown by Year



[Click here to rate and review this research report. Your feedback is important to us.](#)

Disclosure: This analyst has no position in the security discussed in this research report, and no plans to initiate one in the next 72 hours.



# Monolithic Power Systems, Inc. (MPWR)

Updated August 2<sup>nd</sup>, 2022 by Nikolaos Sismanis

## Income Statement Metrics

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Revenue</b>	214	238	283	333	389	471	582	628	844	1,208
<b>Gross Profit</b>	113	128	153	180	211	258	323	346	466	685
<b>Gross Margin</b>	52.9%	53.7%	54.0%	54.1%	54.3%	54.8%	55.4%	55.2%	55.2%	56.7%
<b>SG&amp;A Exp.</b>	50	55	67	72	83	97	114	134	162	226
<b>D&amp;A Exp.</b>	9	12	13	14	15	16	12	15	19	29
<b>Operating Profit</b>	14	24	27	42	54	79	115	105	167	269
<b>Operating Margin</b>	6.7%	9.9%	9.7%	12.6%	13.9%	16.7%	19.8%	16.7%	19.7%	22.3%
<b>Net Profit</b>	16	23	35	35	53	65	105	109	164	242
<b>Net Margin</b>	7.4%	9.6%	12.6%	10.6%	13.6%	13.8%	18.1%	17.3%	19.5%	20.0%
<b>Free Cash Flow</b>	4	45	65	54	71	68	119	120	212	225
<b>Income Tax</b>	2	1	1	7	5	18	13	4	5	30

## Balance Sheet Metrics

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Total Assets</b>	287	369	399	431	511	653	793	956	1,208	1,589
<b>Cash &amp; Equivalents</b>	75	101	126	91	113	83	173	173	335	189
<b>Accounts Receivable</b>	19	24	26	31	34	38	55	53	67	105
<b>Inventories</b>	32	40	41	63	71	99	136	128	157	259
<b>Goodwill &amp; Int. Ass.</b>	-	-	13	12	10	8	7	7	7	6.6
<b>Total Liabilities</b>	29	46	53	63	80	131	153	183	242	342
<b>Accounts Payable</b>	10	11	13	13	17	23	23	27	38	83
<b>Long-Term Debt</b>	-	-	-	-	-	-	-	-	-	-
<b>Shareholder's Equity</b>	258	323	346	369	431	522	640	773	967	1,244
<b>LTD/E Ratio</b>	-	-	-	-	-	-	-	-	-	-

## Profitability & Per Share Metrics

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Return on Assets</b>	5.6%	7.0%	9.2%	8.5%	11.2%	11.2%	14.6%	12.4%	15.2%	17.3%
<b>Return on Equity</b>	6.3%	7.9%	10.6%	9.8%	13.2%	13.7%	18.1%	15.4%	18.9%	21.9%
<b>ROIC</b>	6.3%	7.9%	10.6%	9.8%	13.2%	13.7%	18.1%	15.4%	18.9%	21.9%
<b>Shares Out.</b>	34.9	37.4	38.7	39.5	40.4	41.4	42.2	43.2	44.8	47.9
<b>Revenue/Share</b>	5.90	6.17	7.10	8.15	9.27	10.81	13.06	13.72	17.96	25.22
<b>FCF/Share</b>	0.11	1.16	1.62	1.31	1.69	1.56	2.67	2.61	4.51	4.69

Note: All figures in millions of U.S. Dollars unless per share or indicated otherwise.

### Disclaimer

Nothing presented herein is, or is intended to constitute, specific investment advice. Nothing in this research report should be construed as a recommendation to follow any investment strategy or allocation. Any forward-looking statements or forecasts are based on assumptions and actual results are expected to vary from any such statements or forecasts. No reliance should be placed on any such statements or forecasts when making any investment decision. While Sure Dividend has used reasonable efforts to obtain information from reliable sources, we make no representations or warranties as to the accuracy, reliability or completeness of third-party information presented herein. No guarantee of investment performance is being provided and no inference to the contrary should be made. There is a risk of loss from an investment in marketable securities. Past performance is not a guarantee of future performance.