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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM S-8  
REGISTRATION STATEMENT**  
*UNDER  
THE SECURITIES ACT OF 1933*

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**ENPHASE ENERGY, INC.**

(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**1420 N. McDowell Blvd  
Petaluma, CA 94954  
(707) 774-7000**  
(Address of principal executive offices,  
including zip code)

**20-4645388**  
(I.R.S. Employer Identification No.)

**2011 Equity Incentive Plan  
2011 Employee Stock Purchase Plan**  
(Full titles of the plans)

**Paul B. Nahi  
Chief Executive Officer  
c/o Enphase Energy, Inc.  
1420 N. McDowell Blvd.  
Petaluma, CA 94954  
(707) 774-7000**  
(Name, address, including zip code, and telephone number, including area code, of agent for service)

*Copies to:*

**John H. Sellers  
Cooley LLP  
3175 Hanover Street  
Palo Alto, California 94304  
(650) 843-5000  
Facsimile: (650) 849-7400**

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large Accelerated filer  Accelerated filer   
Non-accelerated filer  (Do not check if a smaller reporting company) Smaller reporting company

**CALCULATION OF REGISTRATION FEE**

<b>Title of Securities to be Registered</b>	<b>Amount to be Registered(1)</b>	<b>Proposed Maximum Offering Price Per Share(2)</b>	<b>Proposed Maximum Aggregate Offering Price(2)</b>	<b>Amount of Registration Fee</b>
Common Stock, par value \$0.0001 per share	2,392,345 shares	\$3.00	\$7,177,035.00	\$722.73

- (1) Pursuant to Rule 416(a) promulgated under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover any additional shares of the Registrant's Common Stock that become issuable under the plans set forth herein by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without receipt of consideration that increases the number of outstanding shares of the Registrant's Common Stock.
- (2) Estimated solely for the purpose of calculating the amount of the registration fee pursuant to Rule 457(h) and Rule 457(c) promulgated under the Securities Act. The offering price per share and the aggregate offering price are based upon the average of the high and low prices of the Registrant's Common Stock as reported on the NASDAQ Global Market on March 3, 2016. The chart below details the calculations of the registration fee:

<b>Securities</b>	<b>Number of Shares</b>	<b>Offering Price Per Share</b>	<b>Aggregate Offering Price</b>
Shares reserved for future issuance under the 2011 Equity Incentive Plan	2,061,949	\$3.00	\$6,185,847.00
Shares reserved for future issuance under the 2011 Employee Stock Purchase Plan	330,396	\$3.00	\$991,188.00
<b>Proposed Maximum Aggregate Offering Price</b>			<b>\$7,177,035.00</b>
<b>Registration Fee</b>			<b>\$722.73</b>

## EXPLANATORY NOTE

This Registration Statement on Form S-8 is being filed for the purpose of registering an additional (i) 2,061,949 shares of the common stock of Enphase Energy, Inc. (the "Registrant") to be issued pursuant to the Registrant's 2011 Equity Incentive Plan and (ii) 330,396 shares of the Registrant's common stock to be issued pursuant to the Registrant's 2011 Employee Stock Purchase Plan.

### INCORPORATION BY REFERENCE OF CONTENTS OF REGISTRATION STATEMENT ON FORM S-8

The contents of the Registration Statement on Form S-8 previously filed with the Securities and Exchange Commission on March 10, 2015 (File No. 333-202630), March 24, 2014 (File No. 333-194749), March 5, 2013 (File No. 333-187057) and May 14, 2012 (File No. 333-181382) are incorporated by reference herein.

### EXHIBITS

<b>Exhibit Number</b>	<b>Exhibit Title</b>
3.1	Amended and Restated Certificate of Incorporation of Enphase Energy, Inc. (1)
3.2	Amended and Restated Bylaws of Enphase Energy, Inc. (2)
4.1	Specimen Common Stock Certificate of Enphase Energy, Inc. (3)
4.2	2010 Amended and Restated Investors' Rights Agreement by and between Enphase Energy, Inc. and the investors listed on Exhibit A thereto, dated March 15, 2010, as amended. (3)
4.3	Form of June 2011 Warrant to Purchase Common Stock of Enphase Energy, Inc. pursuant to that certain Amended and Restated Subordinated Convertible Loan Facility and Security Agreement. (4)
4.4	Form of November 2011 Warrant to Purchase Common Stock of Enphase Energy, Inc. pursuant to that certain Amended and Restated Subordinated Convertible Loan Facility and Security Agreement. (5)
5.1	Opinion of Cooley LLP.
23.1	Consent of Cooley LLP (included in Exhibit 5.1).
23.2	Consent of Deloitte & Touche LLP, independent registered public accounting firm.
24.1	Power of Attorney (reference is made to the signature page of this Form S-8).
99.1	2011 Equity Incentive Plan and forms of agreement thereunder. (6)
99.2	2011 Employee Stock Purchase Plan. (7)

- (1) Previously filed as Exhibit 3.1 to the Current Report on Form 8-K (001-35480), filed with the Securities and Exchange Commission on April 6, 2012, and incorporated by reference herein.
- (2) Previously filed as Exhibit 3.5 to Amendment No. 7 to the Company's Registration Statement on Form S-1, as amended (333-174925), filed with the Commission on March 12, 2012, and incorporated by reference herein.
- (3) Previously filed as the like numbered exhibit to Amendment No. 7 to the Company's Registration Statement on Form S-1, as amended (333-174925), filed with the Commission on March 12, 2012, and incorporated by reference herein.
- (4) Previously filed as Exhibit 4.7 to Amendment No. 7 to the Company's Registration Statement on Form S-1, as amended (333-174925), filed with the Commission on March 12, 2012, and incorporated by reference herein.
- (5) Previously filed as Exhibit 4.8 to Amendment No. 7 to the Company's Registration Statement on Form S-1, as amended (333-174925), filed with the Commission on March 12, 2012, and incorporated by reference herein.
- (6) Previously filed as Exhibit 99.2 to the Company's Registration Statement on Form S-8 (333-181382), filed with the Securities and Exchange Commission on May 14, 2012, and incorporated by reference herein.
- (7) Previously filed as Exhibit 99.3 to the Company's Registration Statement on Form S-8 (333-181382), filed with the Securities and Exchange Commission on May 14, 2012, and incorporated by reference herein.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Petaluma, State of California, on this 9th day of March, 2016.

### ENPHASE ENERGY, INC.

By: /s/ Paul B. Nahi

Paul B. Nahi  
President and Chief Executive Officer

## POWER OF ATTORNEY

**KNOW ALL PERSONS BY THESE PRESENTS**, that each person whose signature appears below constitutes and appoints **Paul B. Nahi** and **Kris Sennesael**, jointly and severally, as his true and lawful attorneys-in-fact and agent, with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement on Form S-8, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Paul B. Nahi</u> Paul B. Nahi	President and Chief Executive Officer (Principal Executive Officer)	March 9, 2016
<u>/s/ Kris Sennesael</u> Kris Sennesael	Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)	March 9, 2016
<u>/s/ Neal Dempsey</u> Neal Dempsey	Director	March 9, 2016
<u>/s/ Steven J. Gomo</u> Steven J. Gomo	Director	March 9, 2016
<u>/s/ Benjamin Kortlang</u> Benjamin Kortlang	Director	March 9, 2016
<u>/s/ James J. McJunkin</u> James J. McJunkin	Director	March 9, 2016
<u>/s/ Richard Mora</u> Richard Mora	Director	March 9, 2016
<u>/s/ John Weber</u> John Weber	Director	March 9, 2016

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John Sellers  
(650) 843-5070  
jsellers@cooley.com

March 9, 2016

Enphase Energy, Inc.  
1420 N. McDowell Blvd.  
Petaluma, CA 94954

Ladies and Gentlemen:

We have acted as counsel to Enphase Energy, Inc., a Delaware corporation (the “*Company*”), in connection with the filing of a Registration Statement on Form S-8 (the “*Registration Statement*”) with the Securities and Exchange Commission covering the offering of up to an aggregate of 2,392,345 shares of the Company’s Common Stock, par value \$0.0001 per share, consisting of (i) 2,061,949 shares (the “*2011 EIP Shares*”) pursuant to the Company’s 2011 Equity Incentive Plan (the “*2011 EIP*”) and (ii) 330,396 shares (the “*2011 ESPP Shares*”) pursuant to the Company’s 2011 Employee Stock Purchase Plan (the “*2011 ESPP*,” and together with the 2011 EIP, the “*Plans*”).

In connection with this opinion, we have examined and relied upon (a) the Registration Statement and related prospectuses, (b) the Plans, (c) the Company’s Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws, each as currently in effect, and (d) such other documents, records, certificates, memoranda and other instruments as in our judgment are necessary or appropriate to enable us to render the opinion expressed below. We have assumed the genuineness and authenticity of all documents submitted to us as originals, and the conformity to originals of all documents submitted to us as copies thereof.

As to certain factual matters, we have relied upon a certificate of officers of the Company and have not sought to independently verify such matters. Our opinion is expressed only with respect to the General Corporation Law of the State of Delaware.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the 2011 EIP Shares and the 2011 ESPP Shares, when sold and issued in accordance with the 2011 EIP and the 2011 ESPP, respectively, and the Registration Statement and applicable related prospectus, will be validly issued, fully paid, and nonassessable (except as to shares issued pursuant to certain deferred payment arrangements, which will be fully paid and nonassessable when such deferred payments are made in full).

We consent to the filing of this opinion as an exhibit to the Registration Statement.

Sincerely,

Cooley LLP

By: /s/ John Sellers  
John Sellers

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated March 1, 2016, relating to the consolidated financial statements of Enphase Energy, Inc. and subsidiaries, appearing in the Annual Report on Form 10-K of Enphase Energy, Inc. for the year ended December 31, 2015.

/s/ Deloitte & Touche LLP

San Francisco, California  
March 9, 2016