



SolarEdge Winter Webinars

South East Europe

February – March 2022

solar**edge**

Your Presenters Today



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Winter Webinars Program

Training events for South East Europe

Monday, Feb 21st	3pm CET / 4pm EET	SolarEdge Home
Wednesday, Feb 23rd	3pm CET / 4pm EET	SolarEdge Commercial Solution
Monday, Feb 28th	3pm CET / 4pm EET	Concept of operation and our smart design tool
Wednesday, Mar 2nd	3pm CET / 4pm EET	Get the most out of SolarEdge monitoring



Concept of Operation and Smart Design

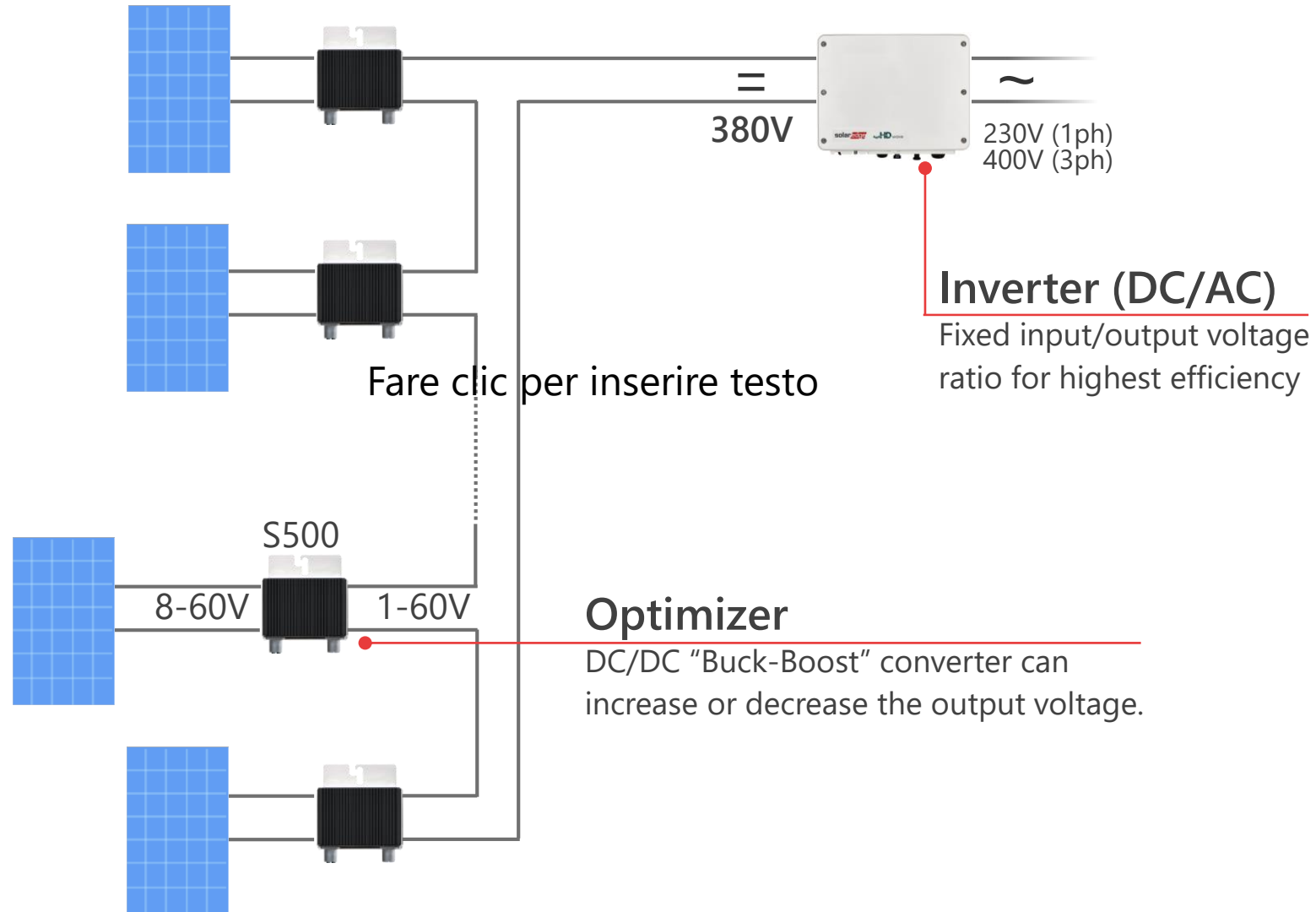
Today's agenda



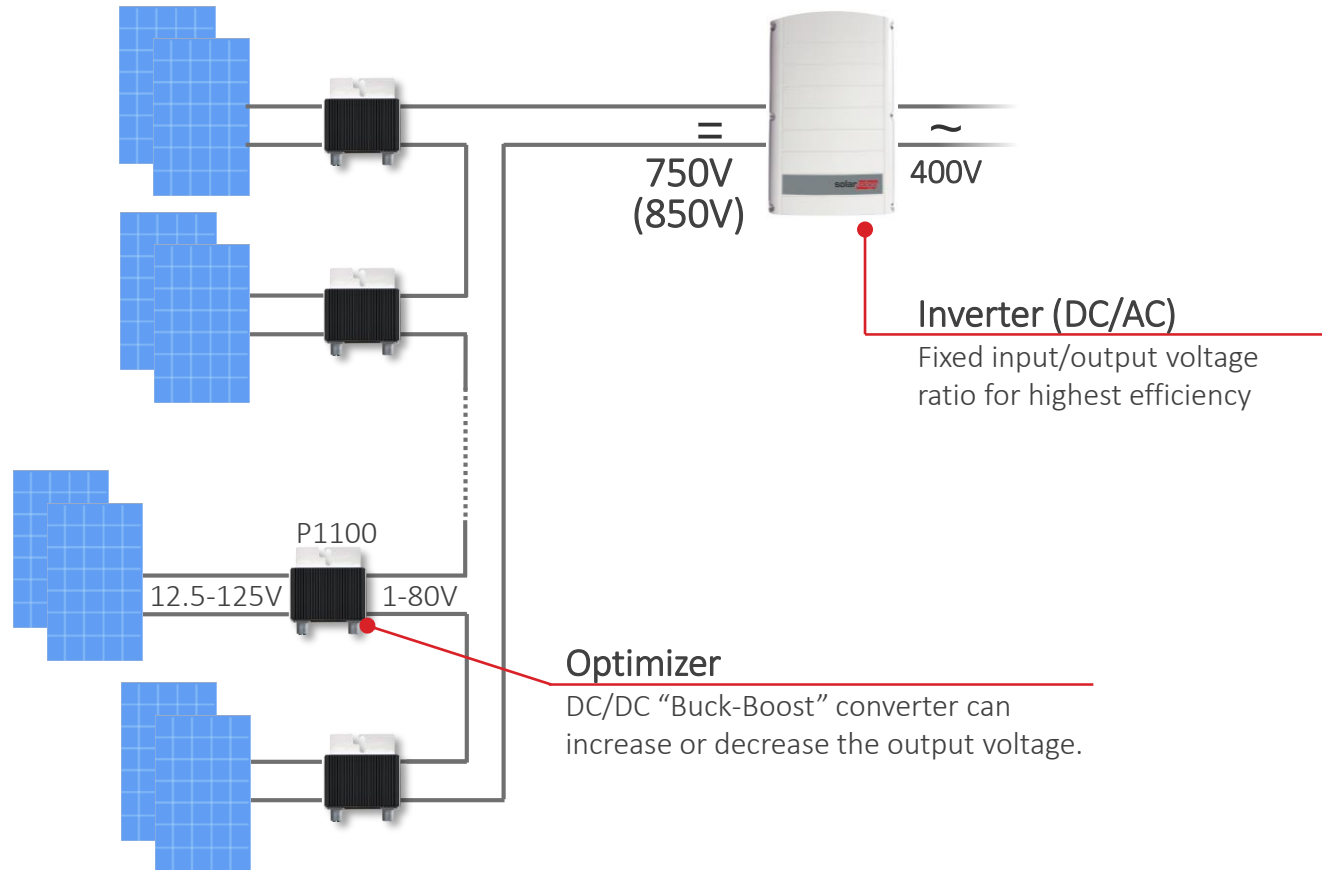
- How do power optimizers work?
- String Rules
- Live session on Designer
- Q&A

SolarEdge System Topology

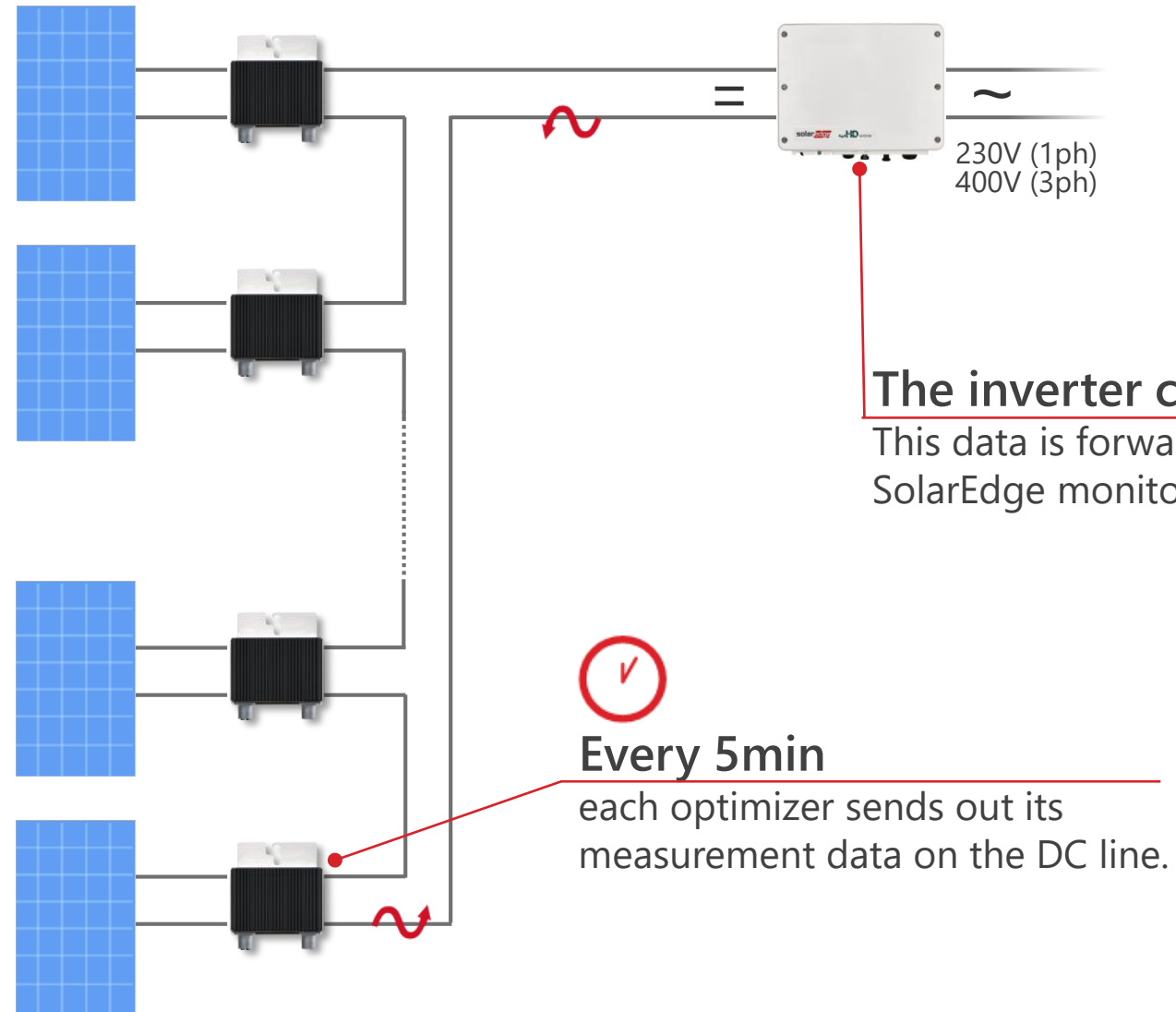
System Topology – Single Phase



System Topology – Three Phase

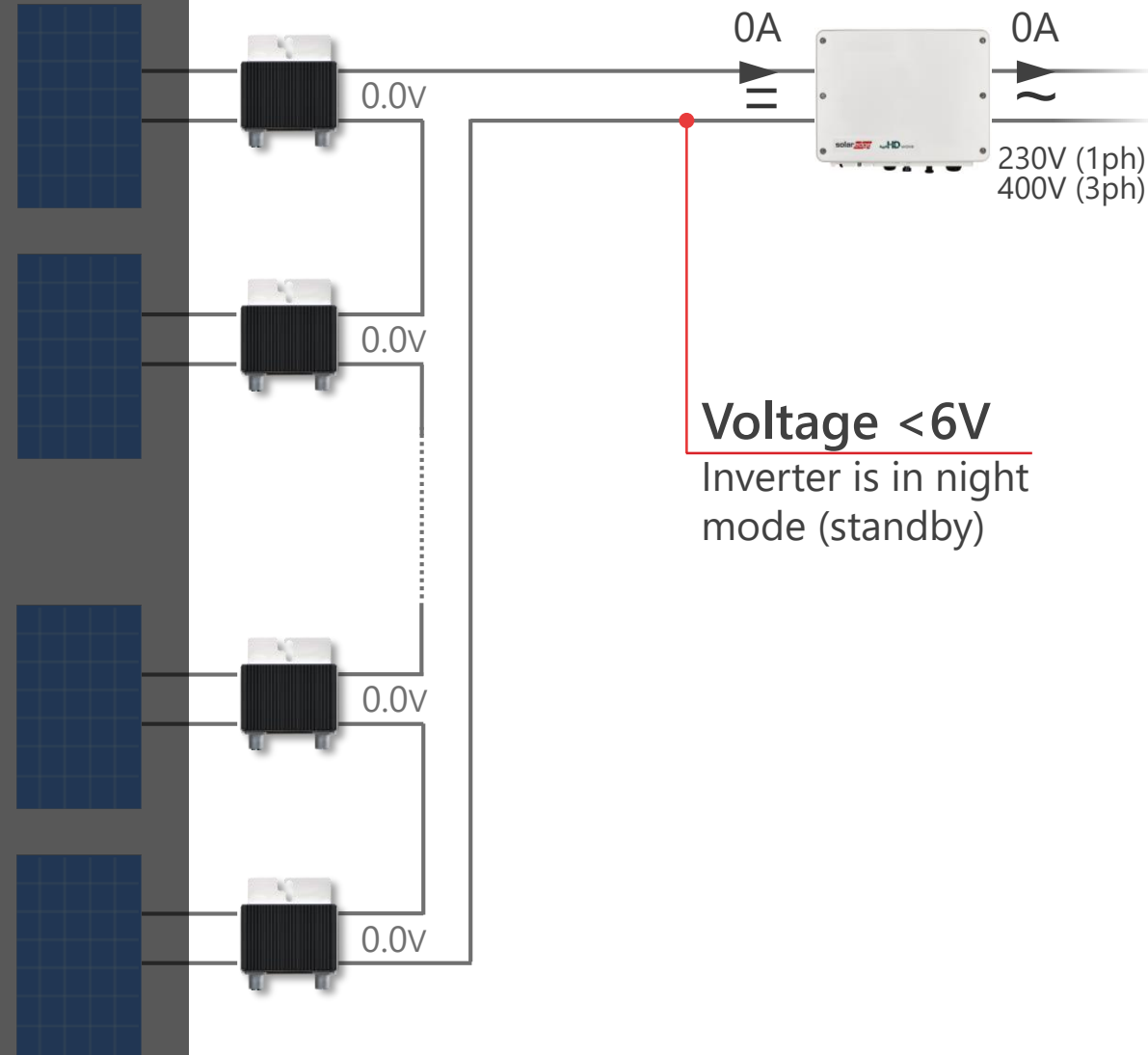


Monitoring Telemetries

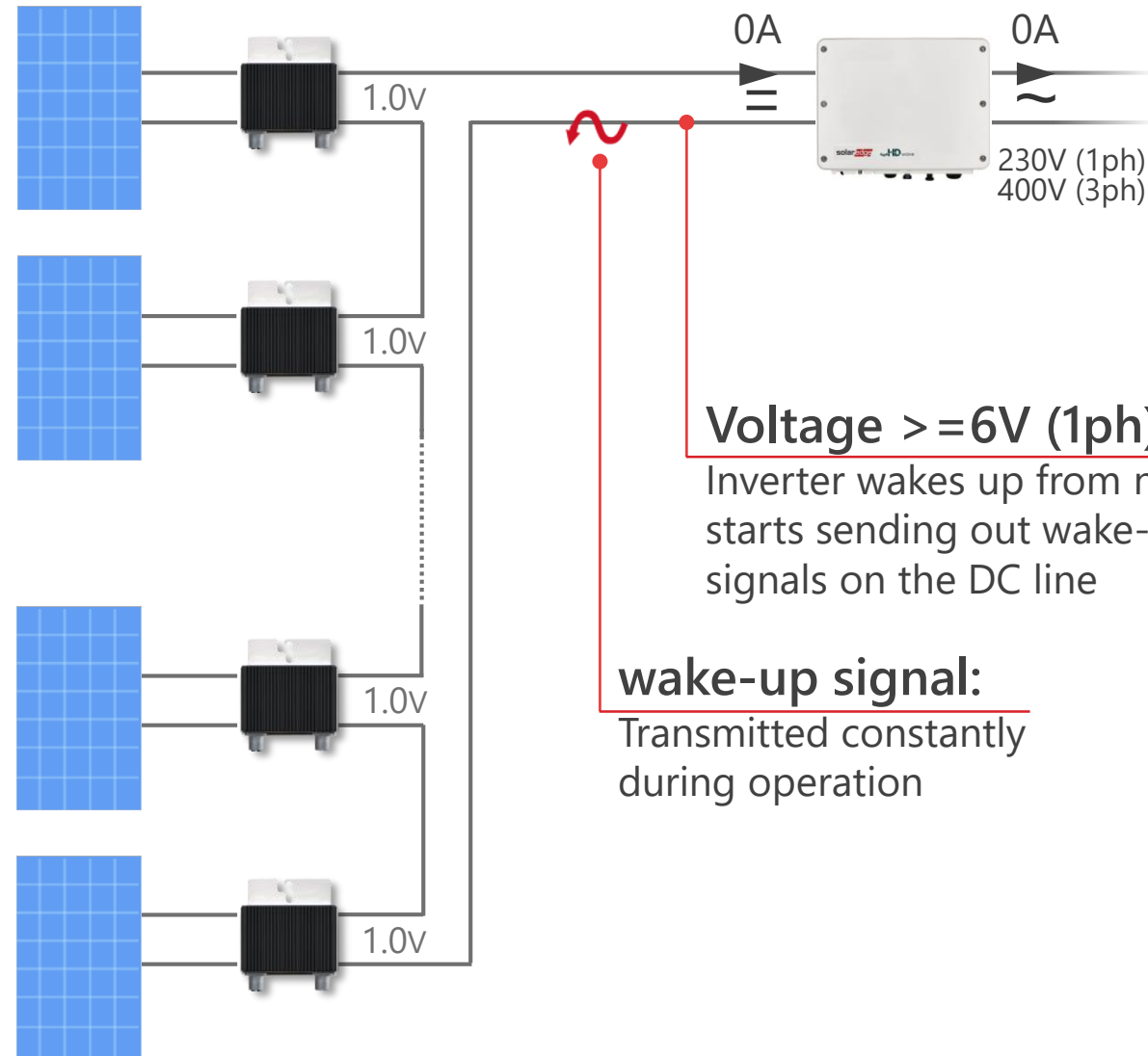


Concept of Operation

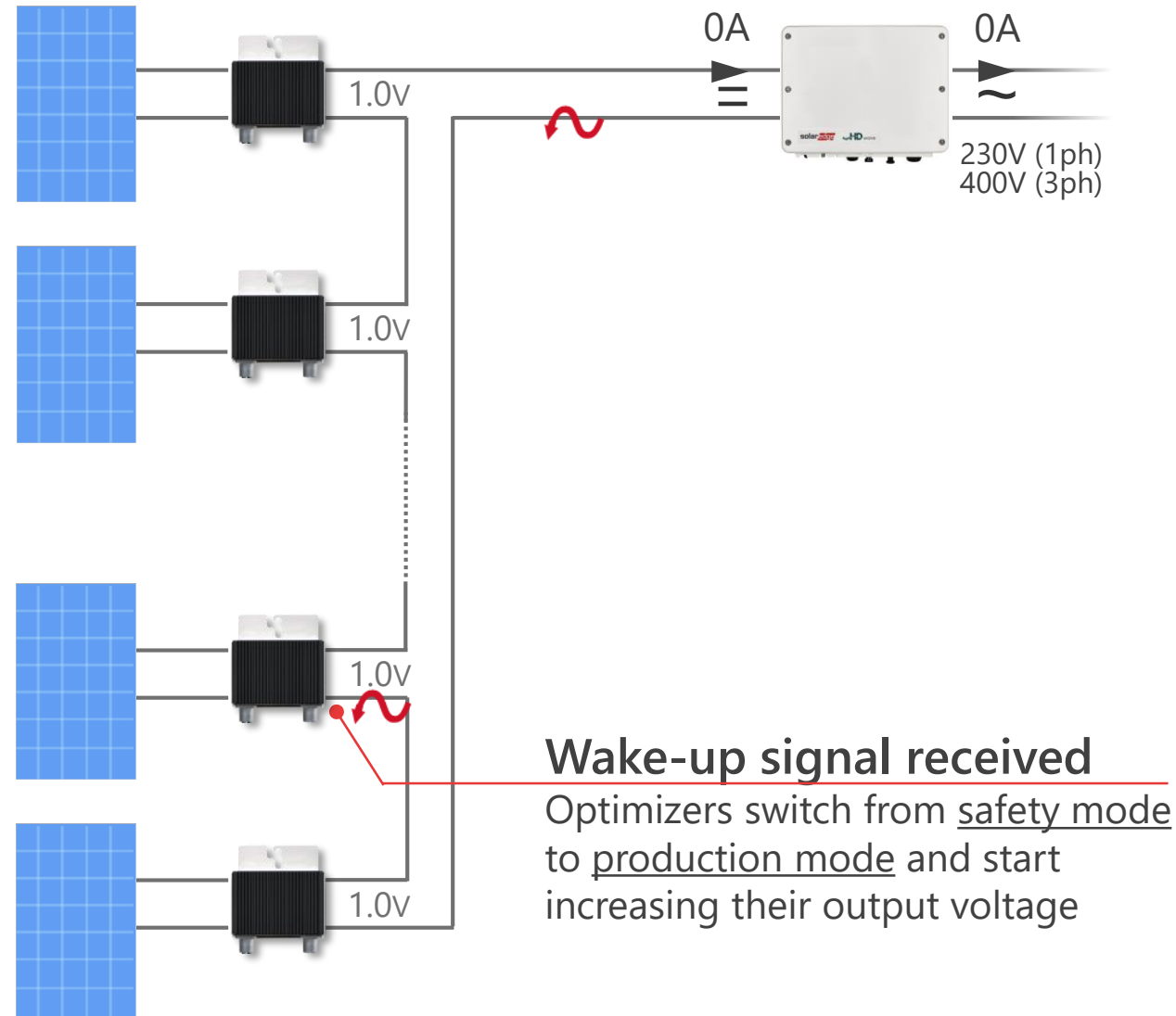
SolarEdge System – Wake-up Process



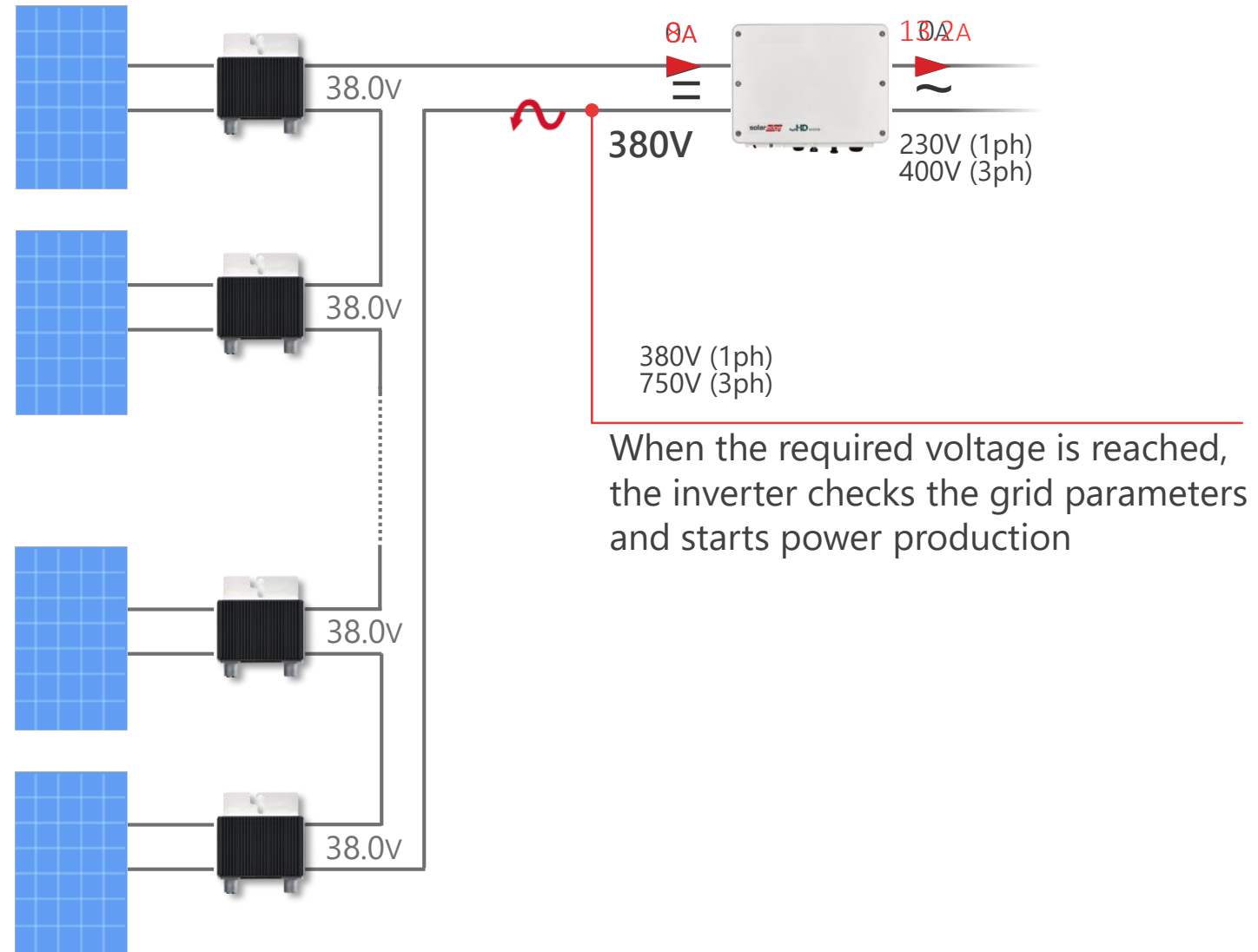
SolarEdge System – Wake-up Process



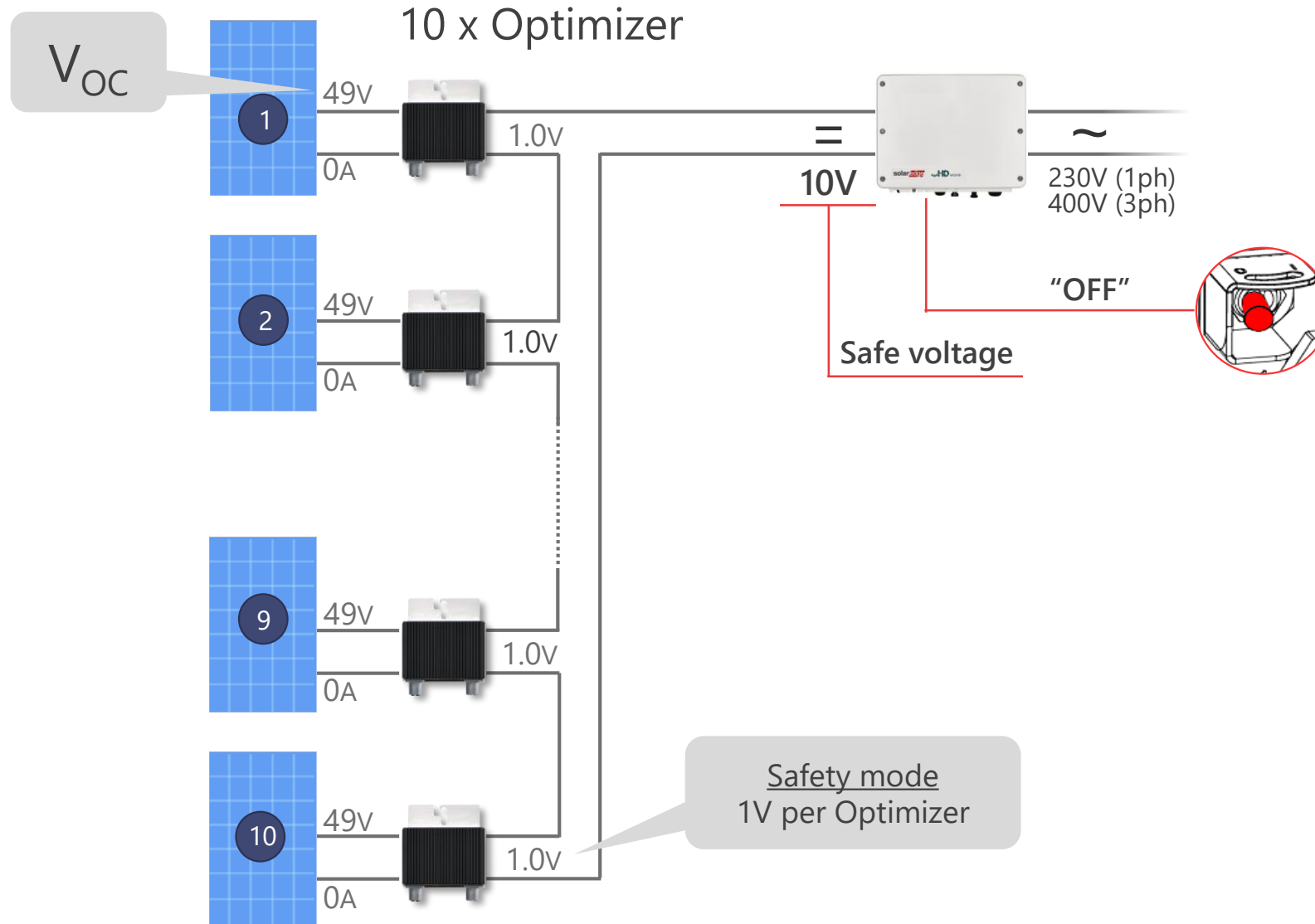
SolarEdge System – Wake-up Process



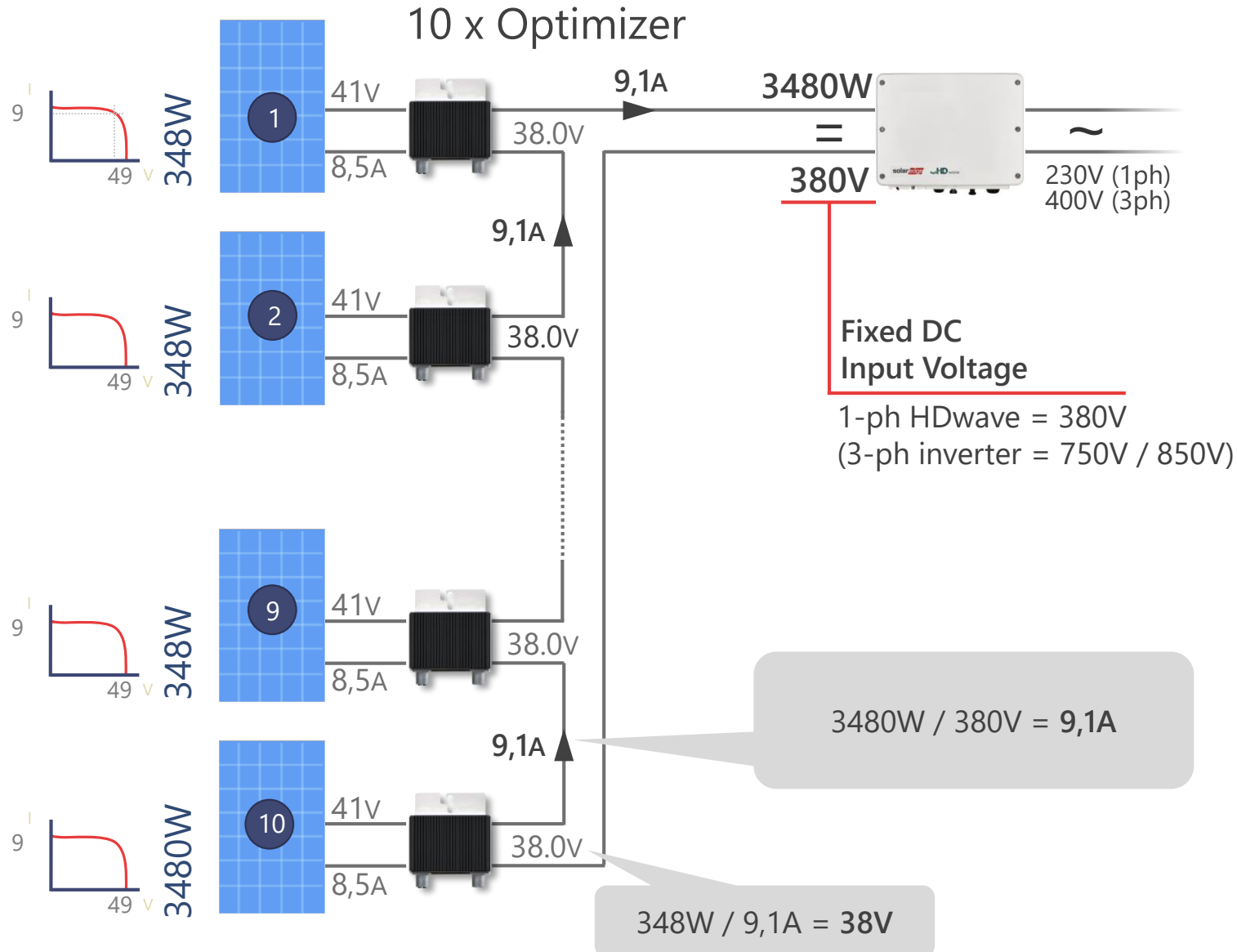
Wake-up Process



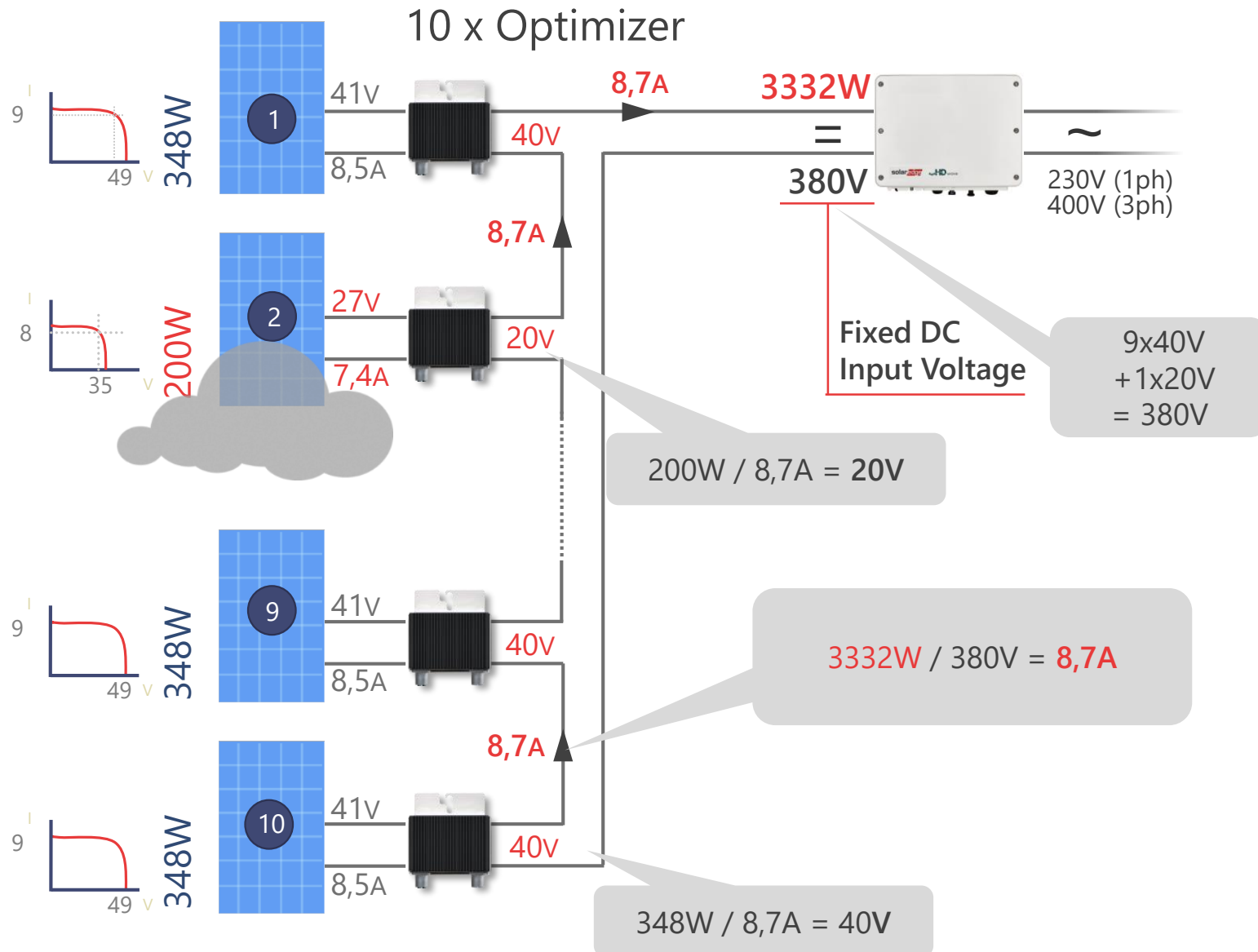
SolarEdge System – Safety Mode



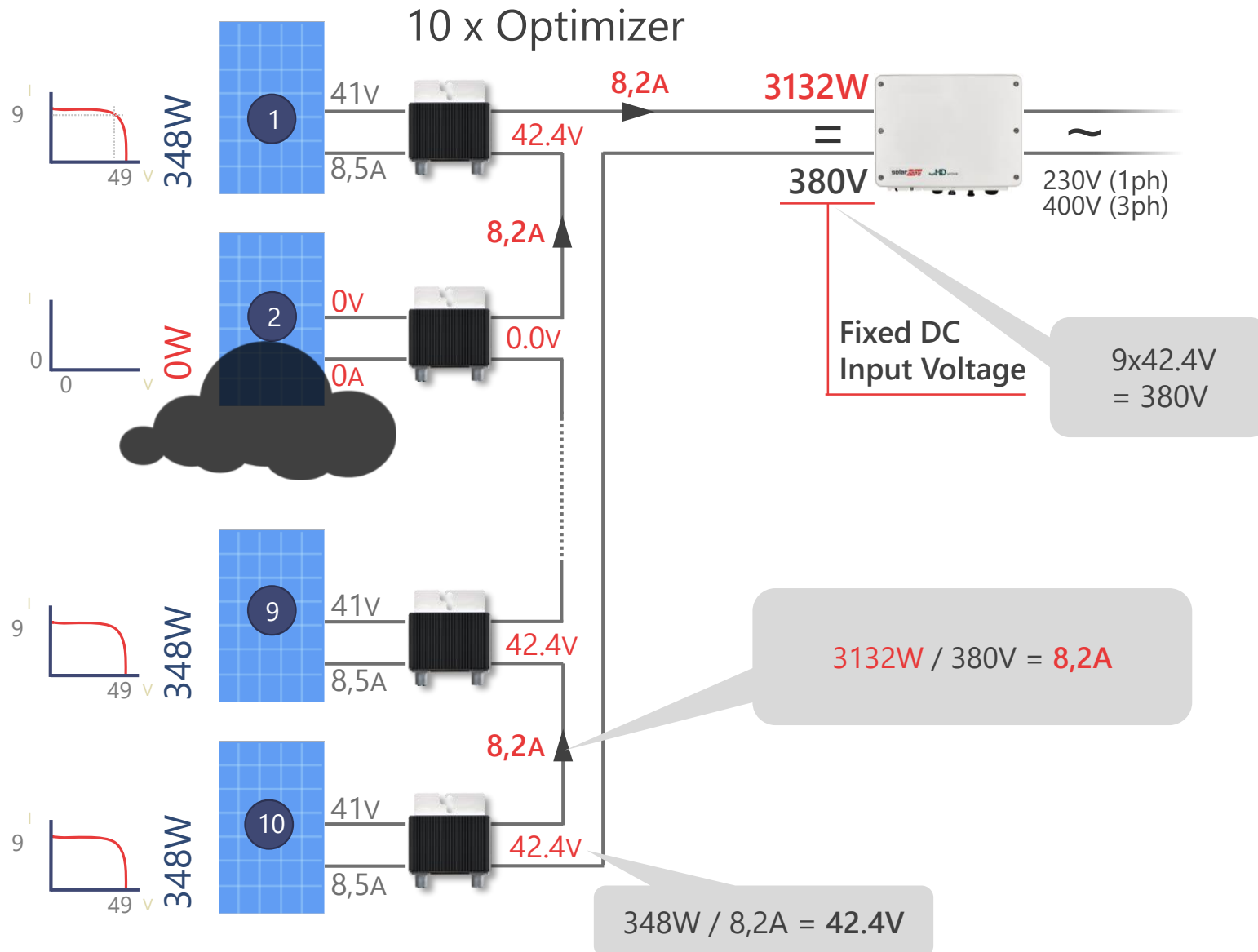
SolarEdge System – Ideal System



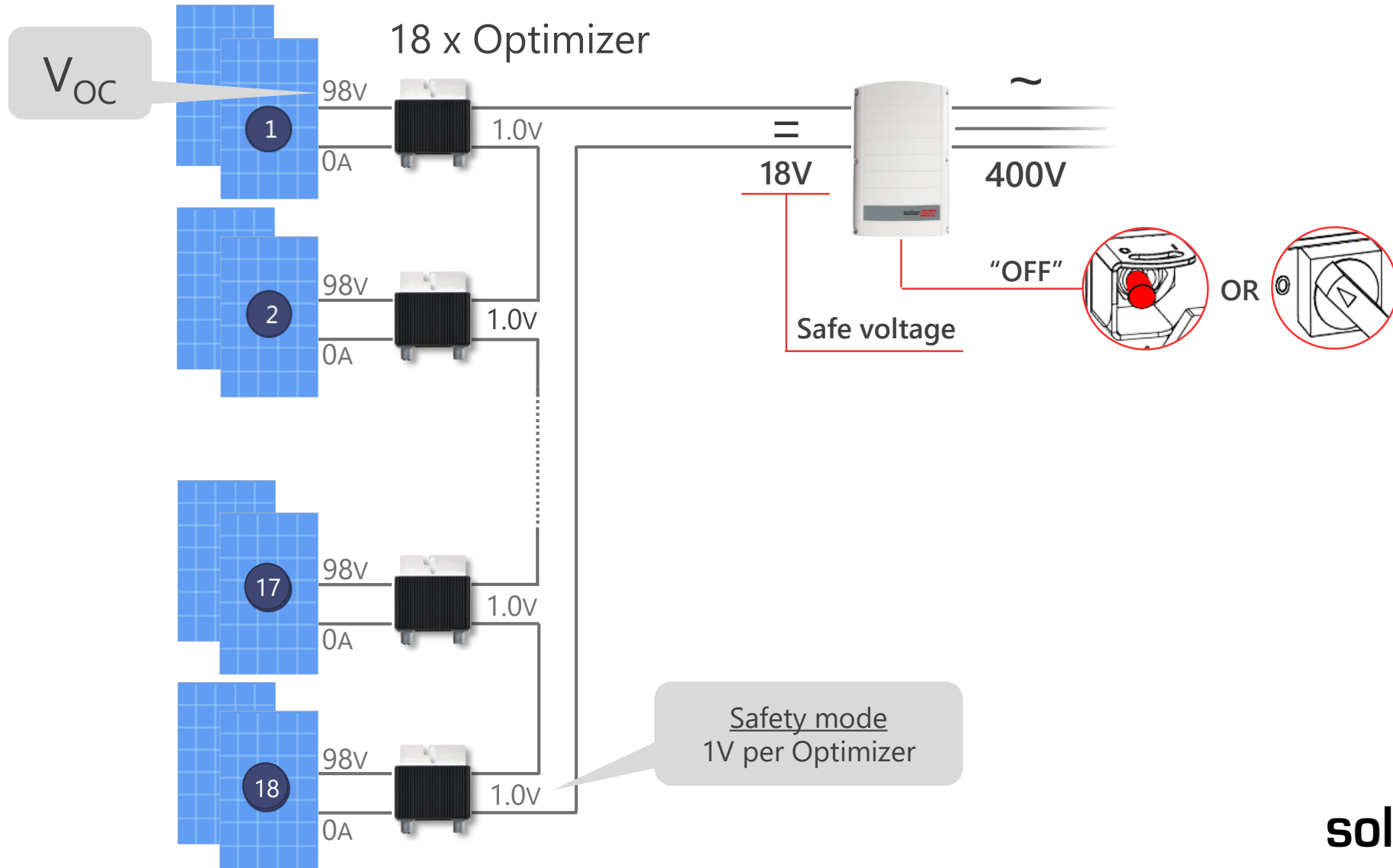
SolarEdge System – Shaded Module



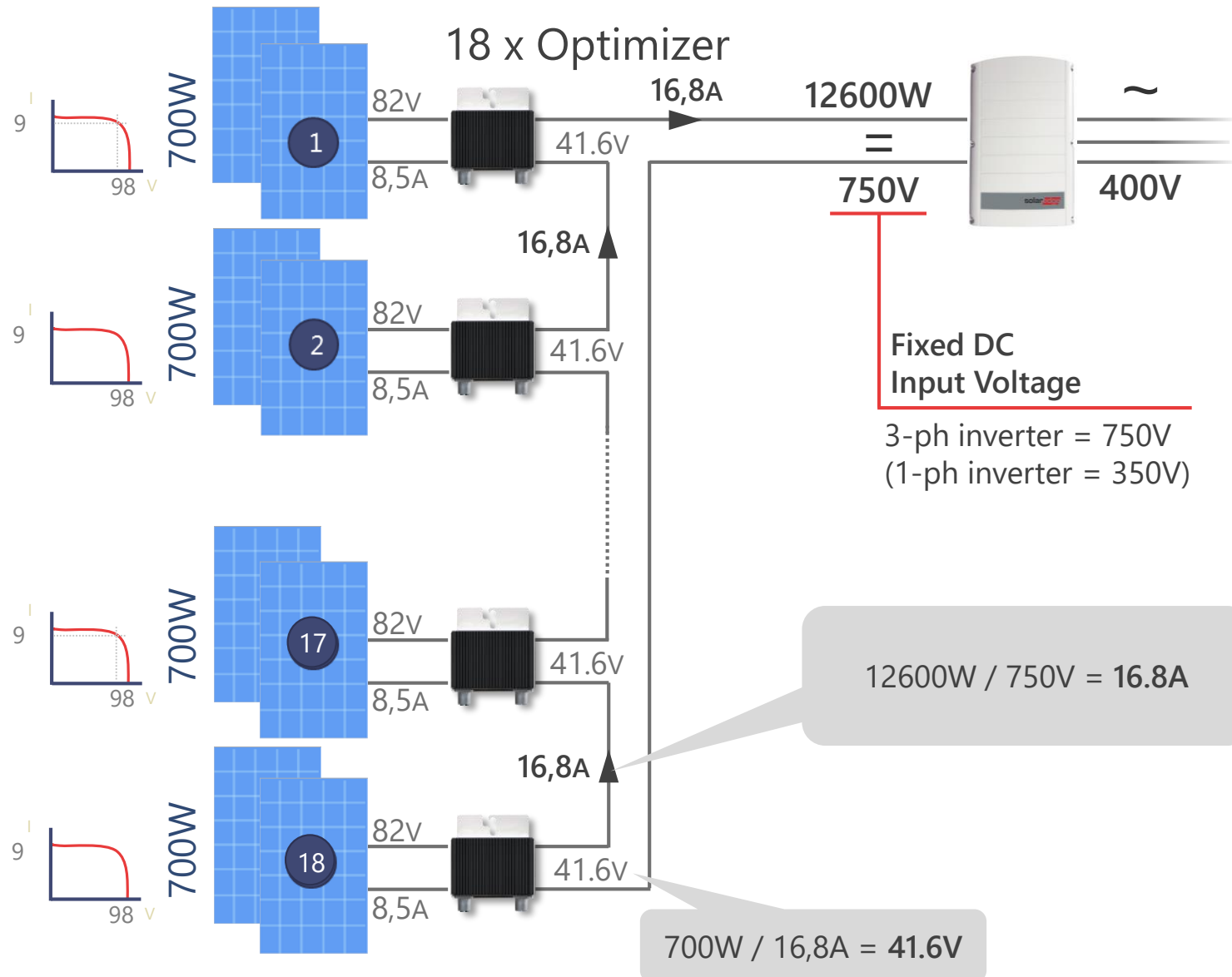
SolarEdge System – Dead Module



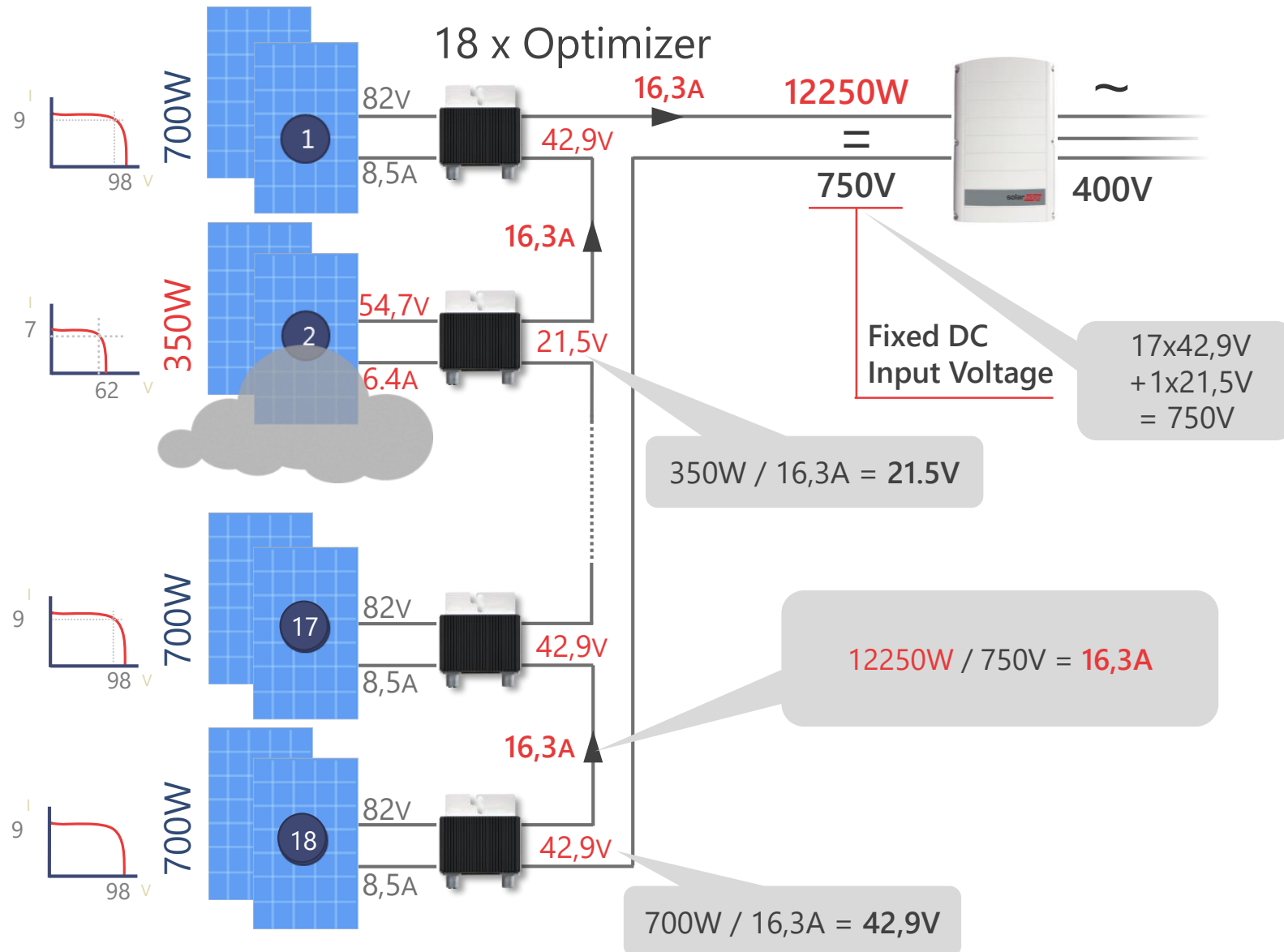
SolarEdge System – Safety Mode



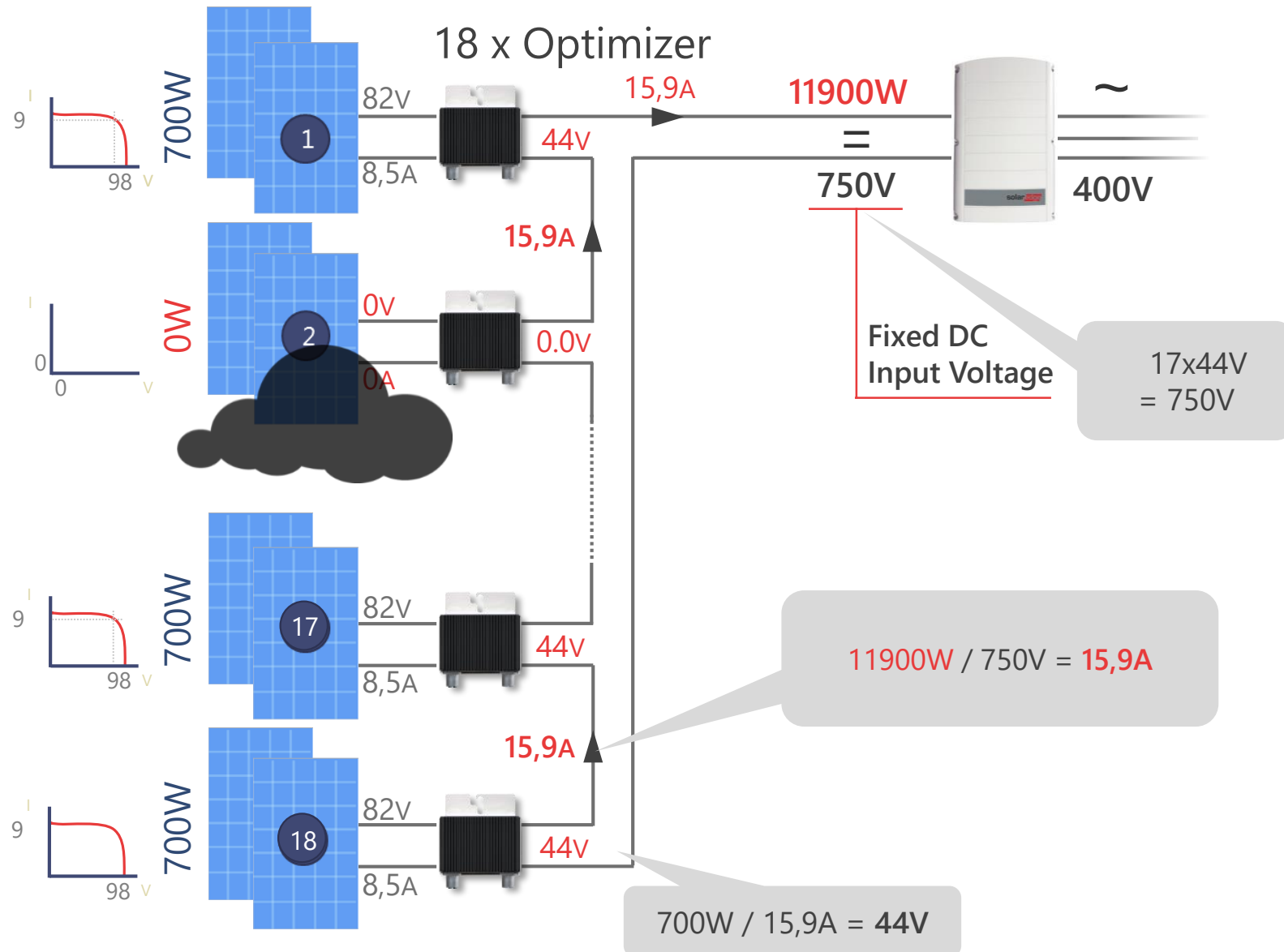
SolarEdge System – Ideal System



SolarEdge System – Shaded Module



SolarEdge System – Dead Module



SolarEdge Design Rules

SolarEdge Design Rules - Residential

Each string must follow one of these rules:

		Min OPs/String	Max OPs/String	Pmax/String
SE2200H ÷ SE6000H SE2200 ÷ SE6000	P300, P370, P401, P500	8	25	5,70 kW (HD-Wave - SExxxxH) 5,25 kW (SExxxx)
	P404, P405, P485, P505, P601	6	25	
SE4K ÷ SE12.5K	P300, P370, P401, P500	16	50	11,25 kW
	P404, P405, P485, P505, P601	14	50	
SE3K	P404, P405, P485, P505, P601	13	50	4,05 kW
SE3K-RW010BNN4	P404, P405, P485, P505, P601	10		3,70 kW
SE3K-RWB ÷ SE5K-RWB	P300, P370, P401, P500	9	25	5,625 kW
	P404, P405, P485, P505, P601	8	25	5,625 kW

Only optimizers from the same row can be connected in the same string!

SolarEdge Design Rules – S-Series

Each string must follow one of these rules:

		Min opt./Strings	Max opt./Strings	Pmax/Strings	Pmax/Strings ($\Delta P < 2000$ W between strings)
Inverter HD-Wave	S440 – S500	8 opt.	25 opt.	5,70 kW	
Inverter 3PH 400 Vca	S440 – S500	16 opt.	50 opt.	11,25 kW	One Strings: 13,50 kW 2 or more strings: 13,50 kW
Inverter 3PH 480 Vca	S440 – S500	18 opt.	50 opt.	12,75 kW	One Strings: 15,00 kW 2 or more strings: 15,00 kW

For new projects it is not possible to install S-Series and P-Series in the same strings.

SolarEdge Design Rules - Commercial

Each string must follow one of these rules:

		Min Opt./String	Min Opt./String	Pmax/String	Pmax/String ($\Delta P < 2000$ W between strings)
Inverter 400 Vca: SE16K, SE17K	P650, P701, P730, P801	14 opt. 27 modules	30 opt. 60 modules	11,25 kW	13,5 kW
Inverter 400 Vca: SE16K, SE17K	P800p, P850, P950	14 opt. 27 modules	30 opt. 60 modules	13,50 kW	One string: 15,75 kW 2 or more strings: 18,50 kW

SolarEdge Design Rules - Commercial

Each string must follow one of these rules:

		Min Opt./String	Min Opt./String	Pmax/String	Pmax/Strings ($\Delta P < 2000$ W between strings)
Inverter 400 Vca: SE25K, SE50K, SE75K SE33.3K, SE66.6K, SE100K	P650, P701, P730, P801	14 opt. 27 modules	30 opt. 60 modules	11,25 kW	13,5 kW
Inverter 400 Vca: SE27.6K, SE55K, SE82.8K	P650, P701, P730, P801	14 opt. 27 modules	30 opt. 60 modules	11,625 kW	13,875 kW
Inverter 400 Vca: SE30K, SE60K, SE90K	P650, P701, P730, P801	15 opt. 29 modules	30 opt. 60 modules	12,75 kW	15,0 kW
Inverter 480 Vca: SE33.3K, SE40K, SE66.6K, SE100K, SE120K	P650, P701, P730, P801	14 opt. 27 modules	30 opt. 60 modules	12,75 kW	15,0 kW

SolarEdge Design Rules - Commercial

Each string must follow one of these rules:

		Min opt./String	Max opt./String	Pmax/String	Pmax/Strings ($\Delta P < 2000$ W between strings)
Inverter 400 Vca: SE25K, SE50K, SE75K	P800p, P850, P950, P1100	14 opt. 27 modules	30 opt. 60 modules	13,50 kW	One String: 15,75 kW 2 or more strings: 18,50 kW
Inverter 400 Vca: SE27.6K, SE55K, SE82.8K	P800p, P850, P950, P1100	14 opt. 27 modules	30 opt. 60 modules	13,95 kW	One String: 16,20 kW 2 or more strings: 18,95 kW
Inverter 400 Vca: SE30K, SE60K, SE90K	P800p, P850, P950, P1100	15 opt. 29 modules	30 opt. 60 modules	15,30 kW	One String: 17,55 kW 2 or more strings: 20,30 kW
Inverter 400 Vca: SE33.3K, SE66.6K, SE100K	P800p, P850, P950, P1100	14 opt. 27 modules	30 opt. 60 modules	13,50 kW	2 or less strings: 15,75 kW 3 or more strings: 18,50 kW
Inverter 480 Vca: SE33.3K, SE40K, SE66.6K, SE100K, SE120K	P800p, P850, P950, P1100	14 opt. 27 modules	30 opt. 60 modules	15,30 kW	2 or less strings: 17,55 kW 3 or more strings: 20,30 kW

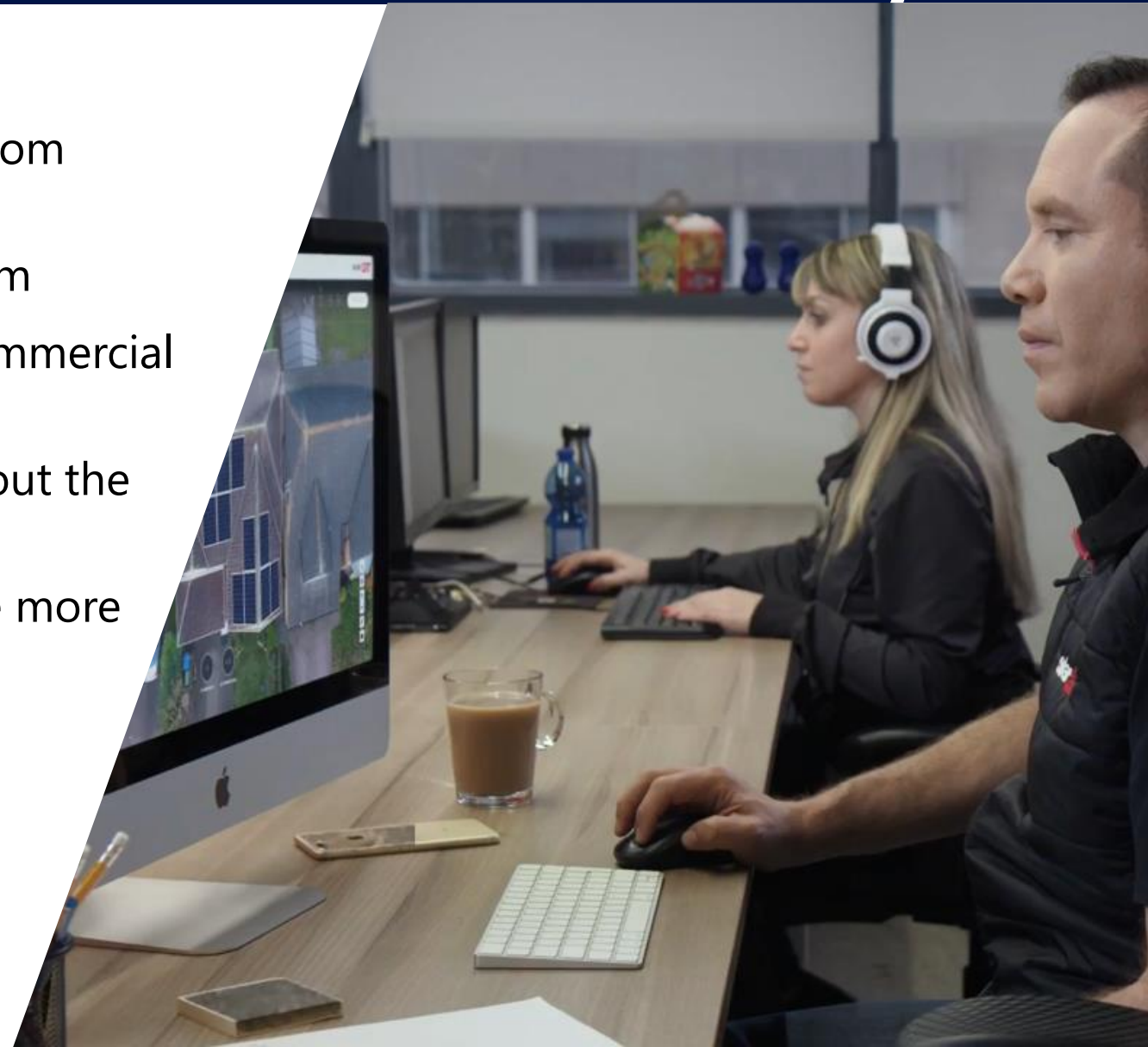


Designer Live Session

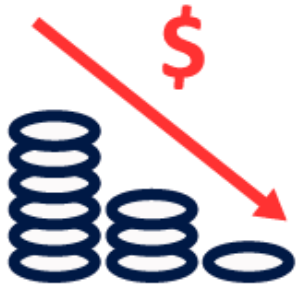
SolarEdge Designer

- Free professional web-based PV design tool
- Plan, build and validate SolarEdge systems from inception to installation
- Fully integrated with the SolarEdge ecosystem
- Dedicated features for both residential & commercial system design
- Provides interactive user feedbacks throughout the creation process
- Helps installer lower PV design costs & close more deals

<https://designer.solaredge.com>



Why Use Designer?



Save Time & Money



Close More Deals



Enhanced Design
Experience

A photograph of a woman in a classroom, seen from behind, with her hand raised. She is wearing a brown sweater. In the background, a male teacher is holding a paper, and other students are visible. The image is split by a diagonal red line that runs from the top left to the bottom right.

Questions?



SolarEdge LIVE Roadshow South East Europe

We are coming to the major cities of your country like Bucharest, Athens, Sofia, Zagreb and many more...

From end of March till June
Live training events focused on sales and technical tools to optimize your business with SolarEdge

Pre-registration available later this week!

Thank You!

Cautionary Note Regarding Market Data & Industry Forecasts

This power point presentation contains market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.