

Comparison between SolarEdge SE27.6K and a leading traditional 60kW string inverter

Maximum Yield

SolarEdge enables maximum power harvesting from the PV system

- > Maximum Power Point Tracking for every two panels
- > The SolarEdge design flexibility enables more panels / power per roof space

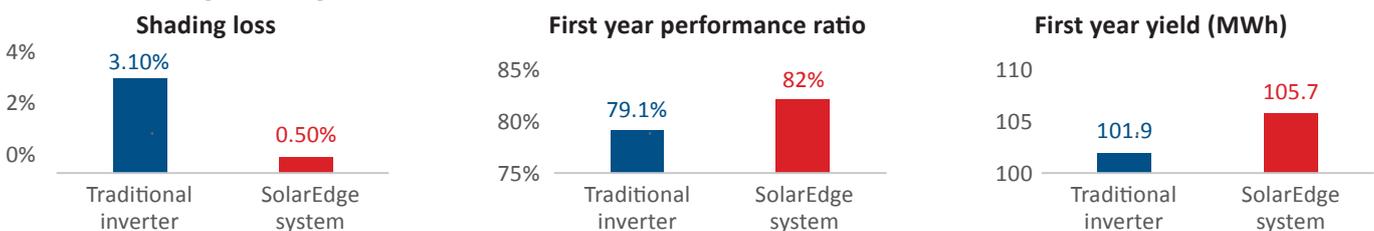
Example I - 60kW PV system on a poultry farm

System Layout

	Traditional inverter	SolarEdge
Peak power	60.8kW _{DC}	60.8kW _{DC}
Panels (72-cell - 320Wp)	190	190
Inverters	1	2
Strings	10	6
Panels per string	19	32



Estimated system yield Based on PVsyst software simulation



SolarEdge lifetime value

First year added yield	Year 20 added yield*	20 years cumulative added yield
3.7%	6.1%	4.8%

*Assuming increased losses of 0.12% due to aging mismatch growth

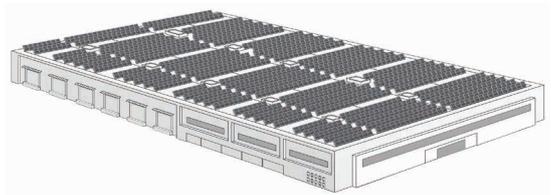
The SolarEdge solution enables maximum yield - production of maximum energy from every pair of panels

BoS Cost Saving

The SolarEdge solution enables significant saving of Balance of System components (cables, fuses, breakers, etc.)

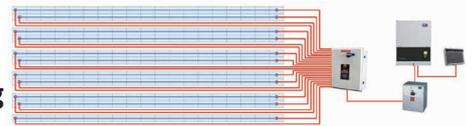
Example II - 500kW rooftop system

	Traditional inverter	SolarEdge
Peak power	501.6kW _{DC}	501.6kW _{DC}
Panels (72-cell - 300Wp)	1,672	1,672
Inverters	8	17
Strings per inverter	11	3
Panels per string	19	32/34
6mm ² DC PV cable (m)	4,360	510
16mm ² DC PV cable (m)	-	2,056
25mm ² DC PV cable (m)	1,824	-
DC plugs	88 pairs	51 pairs
5*16mm ² N2XY AC Cable (m)	-	135
5*35mm ² N2XY AC Cable (m)	52	-
Roof DC Combiner Box	8	17
Including:	<ul style="list-style-type: none"> • 1x 125A DC breaker • 22 x 15A String fuses • 1000VDC SPD 	<ul style="list-style-type: none"> • 1x 40A DC breaker • 6 x 20A String fuses • 1000VDC SPD
Inverter DC Combiner Box	8	17
Including:	<ul style="list-style-type: none"> • 1 x 160A DC disconnecter 	<ul style="list-style-type: none"> • 1 x 63A DC disconnecter
Traditional Inverter Manager	1	-
AC combiner switch board	1	1
Including:	<ul style="list-style-type: none"> • 8 x 3p 100A breaker • 1000A main breaker 	<ul style="list-style-type: none"> • 17 x 4p 50A breaker • 1000A main breaker
GSM communication	1 (requires additional communication box)	1 (optional - built-in to the inverter)
Total BoS cost	100%	69%



Typical traditional inverter string layout

11 strings of 19



Typical SolarEdge string layout

3 strings of 32/34 panels each



— Included DC cables
— Additional DC cables

>30% BoS cost saving (>2c/w)

Full visibility into system performance

The SolarEdge cloud-based monitoring platform enables:

- > Monitoring at the module level – free for lifetime
- > Remote troubleshooting and fault detection pinpointed on a virtual site map
- > Automatic alerts on system issues
- > **No added hardware, no service fees**



Future compatibility and warranty

	Traditional inverter	SolarEdge
Warranty	5 years	Inverters - 12-25 years Power optimizers - 25 years
Ammonia gases resistance	Avoid ammonia gases	Products tested and proven resistant to ammonia gases

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This document includes estimates of various parameters of the compared solar systems, including annual A/C energy production, performance ratio and shading loss based on PVsyst computer-simulated results for installations using our and competing systems. While we are not aware of any reason to believe these estimates and comparisons are materially inaccurate or misleading, they are inherently uncertain and the projected results are not guaranteed. Actual results will vary depending on a number of factors, including actual field conditions, quality of installment and other variances from the assumptions underlying the estimates. Although care has been taken to ensure the accuracy, completeness and reliability of the estimates and comparisons presented, SolarEdge assumes no responsibility for these. MORE SPECIFICALLY, IN NO EVENT SHALL SOLAREEDGE BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR INCIDENTAL LOSSES OR DAMAGES RESULTING FROM OR ARISING OUT OF USE OF OR RELIANCE ON THE ESTIMATES AND COMPARISONS PRESENTED.