

Sunny Tower ST36 / ST42

Inverter Tower



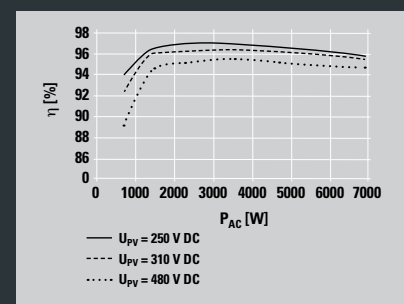
Schüco's Sunny Tower was designed with the installer in mind. We have combined the ease of installation, lowest specific cost (\$/Watt), and the highest efficiency to maximize power production while minimizing costs. Schüco's Sunny Tower combines all the advantages of string inverters with the installation advantages of central inverters.

Features

- Certified to the new UL 1741 / IEEE 1547
- 10 yr. standard warranty
- Pre-wired at factory
- Integrated load-break rated AC/DC disconnect switch
- Improved CEC efficiency
- Integrated fused series string combiner
- Sealed electronics enclosure & Opticool
- Ideal for commercial applications
- Rugged stainless steel outdoor-rated enclosure

Efficiency Curves

The graph shows the efficiency of the system. Increased efficiency means better performance and shorter payback periods.



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Technical Data

Input Data (DC)	ST36	ST42
Max. Recommended Array Input Power (DC @ STC)	45.0 kW	52.5 kW
Max. DC Voltage	600 V	600 V
Peak Power Tracking Voltage	250 – 480 V @ 208 V	250 – 480 V @ 208 V
	250 – 480 V @ 240 V	250 – 480 V @ 240 V
DC Max. Input Current	150 A	180 A
DC Voltage Ripple	< 5%	< 5%
Number of Fused String Inputs	24	24
PV Start Voltage (adjustable)	300 V	300 V
Output Data (AC)		
AC Nominal Power	36.0 kW	42.0 kW
AC Maximum Output Power	36.0 kW	42.0 kW
AC Maximum Output Current (per phase @ 208, 240, 277 V)	100 A, 87 A, 44 A	117 A, 101 A, 51 A
AC Nominal Voltage / Range	183 – 229 V @ 208 V	183 – 229 V @ 208 V
	211 – 264 V @ 240 V	211 – 264 V @ 240 V
AC Frequency / Range	60 Hz / 59.3 Hz – 60.5 Hz	60 Hz / 59.3 Hz – 60.5 Hz
Power Factor	1	1
Efficiency		
Peak Inverter Efficiency	97.0 %	97.1 %
CEC Weighted Efficiency	95.5 % @ 208 V, 240 V	95.5 % @ 208 V
	96.0 % @ 277 V	96.0 % @ 240 V, 277 V
Mechanical Data		
Dimensions W x H x D in inches	43.3 x 70.5 x 39	43.3 x 70.5 x 39
Weight / With 6 Inverters / Total Shipping Weight in lbs.	330 / 1115 / 1700	330 / 1115 / 1700
Ambient Temperature Range	–13 to +113 °F	–13 to +113 °F
Power Consumption: Standby / Nighttime	< 42 W / 1.5 W	< 42 W / 1.5 W
Topology	PWM, true sinewave, current source	PWM, true sinewave, current source
Cooling Concept	Convection, regulated fan cooling	Convection, regulated fan cooling
Mounting Location: Indoor / Outdoor (NEMA 3R)	■ / ■	■ / ■
Features		
LCD Display	■	■
Communication: RS485 / Wireless	■ / ■	■ / ■
Warranty: 10-year	■	■
Compliance: IEEE-929, IEEE-1547, UL 1741, UL 1998, FCC Part 15 A & B	■	■

■ Included / ■ Optional
 Specifications for normal conditions.

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