



SolarEdge Commercial Size Inverters

(preliminary datasheet)

SE35K - SE50K



INVERTERS

Commercial Inverters specifically designed to work with power optimizers

- No electrolytic bulk capacitor for highest reliability
- Superior efficiency (>98%)
- Small, lightest in its class, and easy to install
- Integral DC safety switch
- Optional built in eight strings combiner box
- Separate connection compartment for simple access
- Field serviceable
- Built-in module-level monitoring
- Communication to internet via Ethernet or Wireless
- IP65 – Outdoor and indoor installation



Commercial Size Inverters

SE35K - SE50K (preliminary datasheet)

	SE35K*	SE40K*	SE45K*	SE50K*	
OUTPUT					
Rated AC Power Output	35000	40000	45000	50000	VA
Maximum AC Power Output	35000	40000	45000	50000	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	380 / 220 ; 400 / 230				Vac
AC Output Voltage - Line to Neutral Range	184 - 264.5				Vac
AC Frequency	50/60 ± 5				Hz
Maximum Continuous Output Current (per Phase)	56	63.5	71.5	79.5	Arms
Residual Current Detector / Residual Current Step Detector	500 / 30				mA
Grids Supported - Three Phase	3 / N / PE ; 230 / 400				
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
INPUT					
Recommended Max. DC Power** (Module STC)	38500	44000	49500	55000	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage (Voc)	900				Vdc
Nominal DC Input Voltage	750				Vdc
Maximum Input Current	52	59	66.5	74	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	1MΩ Sensitivity				
Maximum Inverter Efficiency	98.2				%
European Weighted Efficiency	97.8				%
Nighttime Power Consumption	< 3				W
ADDITIONAL FEATURES					
Supported Communication Interfaces	RS485, RS232, Ethernet, Zigbee (optional)				
STANDARD COMPLIANCE					
Safety	IEC-62103 (EN50178), Draft IEC-62109				
Grid Connection Standards	VDE 0126-1-1, VDE-AR-N-4105, AS-4777, RD-1663 , DK 5940				
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output	Cable Gland - diameter 34-44				mm
DC Input	Cable Glands - diameter 6-12mm or 8 x MC4 pairs with DC+ fuse holders or 8 x MC4 pairs with DC+ and DC- fuse holders				mm
Dimensions (H x W x D)	925 x 700 x 350				mm
Weight	90				kg
Operating Temperature Range	-20 - +60				°C
Cooling	Fans (user replaceable)				
Protection Rating	IP65 - Outdoor and Indoor				
Bracket Mounted (Bracket Provided)					

* Certification pending.

** Higher input DC power may be installed; analyze yearly AC performance.

