## Three Phase Inverter For the 277/480V Grid

SE40K



# INVERTERS

#### Specifically designed to work with power optimizers

- Fixed voltage inverter for superior efficiency (98.1%) and longer strings
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Small, lightest in its class, and easy to install
- Integrated type 2 DC Surge Protection, to better with stand lightning events
- Optional RS485 and type 2 AC Surge Protection
- Advanced safety features integrated arc fault protection and optional rapid shutdown

- Built-in module-level monitoring with Ethernet, wireless or cellular communication for full system visibility
- Smart Energy Management control
- IP65 Outdoor and indoor installation
- Optional integrated DC Safety Unit eliminates the need for external DC isolators
- Future-ready for SolarEdge energy storag esolution



### / Three Phase Inverter for the 277/480V Grid

#### SE40K

A collection of the collection of the collection	SEXXK-XXX8IXXXX	
Applicable to inverters with part numbers	SE40K	
OUTPUT		
Rated AC Power Output	40000	W
Maximum apparent AC Output Power	40000	VA
AC Output Voltage - Line to Line / Line to Neutral (Nominal)	480 / 277	Vac
AC Output Voltage - Line to Neutral Range	244 - 305	Vac
AC Frequency	50/60 ± 5%	Hz
Maximum Continuous Output Current (per Phase)	48.25	
		Aad
AC Output Line Connections	3W + PE, 4W + PE	
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes	
Total Harmonic Distortion	≤ 3	%
Power Factor Range	+/-0.2 to 1	
INPUT	., 0.2.00	
	60000	W
Maximum DC Power (Module STC)	60000	VV
Transformer-less, Ungrounded	Yes	1/1
Maximum Input Voltage DC+ to DC-	1000	Vd
Operating Voltage Range	680 - 1000	Vd
Maximum Input Current	48.25	Ad
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	167kΩ Sensitivity <sup>(1)</sup>	
Maximum Inverter Efficiency	98.1	%
European Weighted Efficiency	98	%
Nighttime Power Consumption	< 4	W
ADDITIONAL FEATURES		
Supported Communication Interfaces	2 x RS485, Ethernet, Wi-Fi (requires an antenna), Cellular (optional)	
Smart Energy Management	Export Limitation	
Inverter Commissioning	With the SetApp mobile application using built in Wi-Fi access point for local connection	
Arc Fault Protection	Integrated, User Configurable (According to UL1699B)	
Rapid Shutdown	Optional <sup>(2)</sup> (Automatic upon AC Grid Disconnect)	
RS485 Surge Protection	Optional	
DC Surge Protection	Type II, field replaceable, Integrated	
AC Surge Protection	Type II, field replaceable, Optional	
DC SAFETY UNIT (OPTIONAL)		
2-pole Disconnection	1000V / 48.25A	
DC Fuses (Single Pole)	25A ,Optional	
Compliance	UTE-C15-712-1	
STANDARD COMPLIANCE		1
Safety	IEC-62103 (EN50178), IEC-62109, AS3100	
	BDEW, CEI-016	
Grid Connection Standards <sup>(3)</sup>	·	
Emissions	IEC61000-6-2, IEC61000-6-3 Class A, IEC61000-3-11, IEC61000-3-12	
RoHS	Yes	
INSTALLATION SPECIFICATIONS		
AC Output Gland Diameter / Line cross section / PE cross section	Cable diameter 19-28 mm / 4 – 16 mm² / 4 – 16 mm²	
nverter with Safety Unit AC Output Gland Diameter / Line cross section / PE cross section	Cable diameter 19-28 mm / 6 16 mm² / 6 16 mm²	
DC Input <sup>(4)(5)</sup>	4 MC4 pairs	
	4 MC4 pairs	
DC Input with Safety Unit <sup>(4)(5)</sup>	4 Strings: Gland: Cable outer diameter, 5 - 10 mm / Wire cross section 2.5 - 16mm <sup>2</sup>	
Dimensions (H x W x D)	550 x 317 x 273	mr
Dimensions with Safety Unit (H x W x D)	836 x 317 x 300 (DC MC4); 819 x 317 x 300 (DC Gland)	mr
Weight	32	kg
Weight with Safety Unit	36.5	kg
Operating Temperature Range	-40 to +60	°C
Cooling	Fan (user replaceable)	
Noise	< 62	dB
	< 02 IP65	ub.
Protection Rating		
Mounting	Bracket Provided	

<sup>(1)</sup> Where permitted by local regulations
(2) Inverter with rapid shutdown part number: SEXXK-xxRxxxxxx
(3) For all standards refer to Certifications category in Downloads page: http://www.solaredge.com/groups/support/downloads
(4) Only MC4 connectors manufactured by Stäubli are approved for use

<sup>(5)</sup> DC input available with MC4 or Gland connectors under the inverter part number. For more information, contact SolarEdge