solar<mark>edge</mark>

Three Phase Inverter with Synergy Technology

SE50K / SE55K / SE82.8K



Specifically designed to work with power optimizers

- Easy two-person installation each unit mounted separately, equipped with cables for simple connection between units
- Balance of System and labor reduction compared to using multiple smaller string inverters
- Independent operation of each unit enables higher uptime and easy serviceability
- No wasted ground area: wall/rail mounted or horizontally mounted under the modules (10° inclination)
- Built-in module-level monitoring with Ethernet or cellular GSM
- Fixed voltage inverter for superior efficiency (98.3%) and longer strings
- Integrated Connection Unit with optional integrated DC Safety Switch eliminates the need for external DC isolators
- Built-in RS485 Surge Protection, to better withstand lightning events

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Three Phase Inverter with Synergy Technology

SE50K / SE55K / SE82.8K

SE50K ⁽¹⁾	SE55K	SE82.8K	
F0000 ⁽²⁾	55000	02000	
			. V
50000(2)	55000	82800	. V
	380/220 ; 400/230		Va
304 - 437 / 176 - 253 ; 320 - 460 /184 - 264.5		Va	
	50/60 ± 5	· · · · · · · · · · · · · · · · · · ·	H
76	80	120	A
		•••••••••••••••••••••••••••••••••••••••	m
	Yes		
67500 / 33750	74500 / 37250	111750 / 37250	W
	Yes		
	1000		Vo
			V
7/1		120	A
		120	
		•••••••••••••••••••••••••••••••••••••••	9
		••••••	· · · · v
	× 12		
	RS485, Ethernet, GSM plug-in (optic	inal)	
		• • • • • • • • • • • • • • • • • • • •	
	Duitein		
1000\	1/2×40A	1000V / 2 x 40A	
10001	V / Z X 40A	10007 / 5 X 40A	
	IEC-62109, AS3100		
VDE-AR-N-4105, G59	/3, AS-4777,EN 50438 , CEI-021,VDE	0126-1-1, CEI-016, BDEW	
IEC61000-	-6-2, IEC61000-6-3 , IEC61000-3-11, I	EC61000-3-12	
	Yes		
	2	3	
Cable gland — diameter 22-32; PE gland diameter 10-16		Cable gland — diameter 20-38; PE gland diameter 10-16	m
		9 strings, 4-10mm ² DC wire,	
3 MC4 p	3 MC4 pairs per unit		
Aluminum or Copper: L. N: Up to 70, PE: Up to 35		Aluminum or Copper; L, N: Up to	mr
Primary Unit: 940 x 315 x 260; Secondary Unit: 540 x 315 x 260		m	
		45	
			dE
	× 00		
	50000 ⁽²⁾ 50000 ⁽²⁾ 30 76 67500 / 33750 67500 / 33750 74 74 74 74 74 74 74 74 74 74 74 6 strings, 4-10m ² DC wire, 3 MC4 p Aluminum or Copper; Primary Un	50000 ⁽²⁾ 55000 50000 ⁽²⁾ 55000 380/220 ; 400/230 304 - 437 / 176 - 253 ; 320 - 460 / 184 - 50/60 ± 5 76 80 3 / N / PE (WYE with Neutral) 250 per unit ⁽³⁾ Yes 1000 750 74 80 Yes 1000 750 74 74 80 Yes 350kΩ Sensitivity per Unit ⁽⁴⁾ 98.3 98 < 12	\$0000 ¹⁰ \$5000 \$82800 \$50000 ¹⁰ \$5000 \$82800 380/220 ; 400/230 330/220 ; 400/230 \$22800 304 - 437 / 176 - 253 ; 320 - 460 / 184 - 264.5 \$50/60 ± 5 \$120 76 80 120 3 / N / PE (WYE with Neutral) \$250 per unit ¹⁰ Yes Yes 67500 / 33750 74500 / 37250 111750 / 37250 74 80 120 350kQ Sensitivity per Unit ¹⁰ \$8.3 98 < 12

(2) 49990 in the UK

(3) If an external RCD is required, its trip value must be ≥ 300mA per unit (≥ 600mA for SE50K/SE55K; ≥ 900mA for SE82.8K)

(4) Where permitted by local regulations

¹⁵ Refer to Datasheets -> Communications category on Downloads page for specifications of optional communication options: <u>http://www.solaredge.com/groups/support/downloads</u> ¹⁶ For all standards refer to Certifications category on Downloads page: <u>http://www.solaredge.com/groups/support/downloads</u>

¹⁰ The DC industry type, MC4 or glands, and DC switch P/N: SExxK-xx0P0BNU4, inverter with MC4 and without DC switch P/N: SExxK-xx0P0BNG4, inverter with glands and without DC switch P/N: SExxK-xx0P0BNG4, inverter with MC4 and without DC switch P/N: SExxK-xx0P0BNV4

⁽⁸⁾ For power de-rating information refer to: <u>https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf</u>

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