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CONVERSION EQUIPMENT

GRID CONNECT SOLAR AND AEOLIAN ESHIA INVERTERS

In compliance with the rules of photovoltaic systems connected to the network.

Ref:	Type	Features	PVP
Inverters from 125 to 10,000 W nominal power.			
10827	**SINEO-125**	125 W nominal power.	
10828	**SINEO-250**	250 W nominal power.	
10831	**SINEO-1K25**	1.250 W nominal power.	
10832	**SINEO-1K65**	1.650 W potencia nominal	
10833	**SINEO-2K5**	2.500 W nominal power.	
10835	**SINEO-3K3**	3.300 W nominal power.	
10838	**SINEO-10K**	10.000 W Three-phase nominal power.	
10840	**SINEO-13K2**	13.200 W potencia nominal Trifásico	

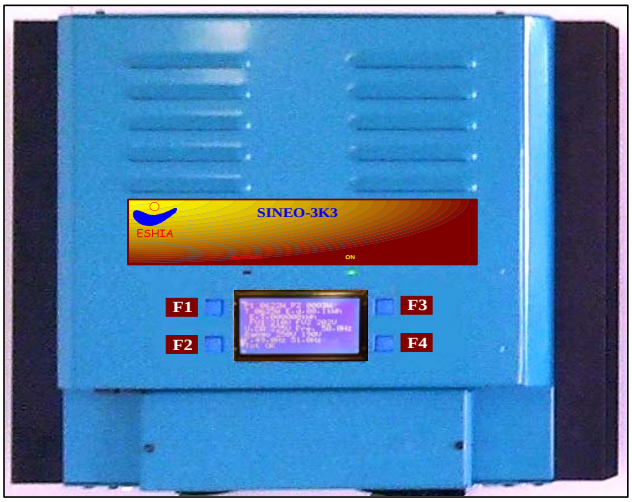
CHECK PRICES OF EQUIPMENT FOR VERSIONS 117V and/or 60Hz

SINEO-125

SINEO-250

SINEO-1K25

SINEO-1K65



SINEO-3K3

SINEO 13K2

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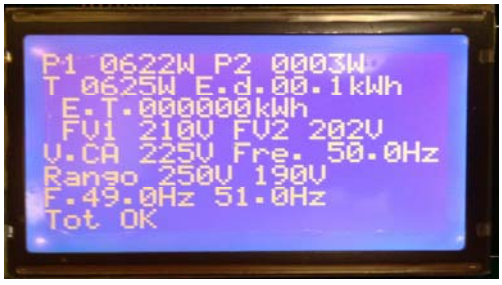
GRID CONNECT SOLAR AND AEOLIAN INVERTERS

TECHNICAL SPECIFICATIONS

Type	SINEO-125	SINEO-250	SINEO-1K25	SINEO-1K65	SINEO-2K5	SINEO-3K3	SINEO-10K	SINEO-13K2
REFERENCE	10827	10828	10831	10832	10833	10835	10838	10839
Input DC (solar generator)								
Maximum generation power (25° C)	150 Wp	300 Wp	1500 Wp	2000 Wp	1500 Wp x 2	2000 Wp x 2	3950 Wp x 3	3950 Wp x 4
Operation mode (microprocesor)	1 MPP-Seeker				2 MPP-Independent seeker		3 MPP-Ind seek	4 MPP-Ind seek
Solar generator voltage								
Vpmin =	13 Vdc	14 Vdc	80 Vdc	120Vdc	150 Vdc	200 Vdc	320 Vdc	320 Vdc
Vocmax=	24 Vdc	80 Vdc	200 Vdc	260 Vdc	300 Vdc	420 Vdc	600 Vdc	600 Vdc
Accuracy MPP-Tracking	1%							
MPPT operating range	14 V to 22 V	15 V to 70 V	90 V to 180 V	120 V to 240 V	160 V to 270 V	220 V to 400 V	350 V to 550 V	350 V to 550 V
Maximum input current	10 A	18 A	10 A	8,5 A	8,5 A + 8,5 A	8,5 A + 8,5 A	10,5 A x 3	10,5 A x 4
Minimum required power generation	2 W	2 W	20 W	20 W	20 W	20 W	42W	42W
Automatic adjustment to the PV field characteristics	integrated							
Output CA GRID								
Output nominal power	125 W	250 W	1.250 W	1.650 W	2.500 W	3.300 W	9.900 W	13.200 W
Voltage	230 Vac / 50 Hz , 115 Vac / 60 Hz or 230 Vac / 60 Hz on request							
Phases	Monophasic						Threephasic	
Voltage range	195 - 253 Vac or 97 - 127 Vac on request							
Frequency range (+ - 5%)	50 Hz or 60 Hz on request (adaptation to the regulations of each country)							
Generated Current : sine. Distortion	< 3%							
Protection devices								
Protection against excessive temperature by the maximum power regulating	integrated							
Protection against voltage peaks and lightning	integrated							
Earthing fault detection of PV field	integrated							
Time off by failure of the electrical grid signal	< 5 ms							
Isolation between PV field circuit (DC) and the grid (AC)	3.000 V ca, 50 Hz							
General information								
Peak efficiency	96%							
Efficiency	> 90 %							
	Between 10% y 100% of the nominal power							
Standby power	< 0,5 W		< 1 W					
EMC filter to grid connection, ensuring electromagnetic compatibility according to CE standards	integrated							
Safety class	Class I							
Galvanic isolation	Class II							
Protection range	IP34							
Operating temperature	-20 ...50 °C							
Height x Width x Depth [mm]	255x155x61,5	213x172x60	290x252x152	400x350x150			515x400x280	
Weight	0,5 kg	0,75 kg	4 kg	10 kg	10 kg	10 kg	25kg	30 kg
Communication Devices								
Communication output port RS232	no		yes					
Communication output port RS485	no		yes // via adapter RS232 // supplied by Eshia					
External software programming	no		si					
Indicator	2 Led for operation indication and fault signaling		6 Led for operation indication and fault signaling	Digital display 2 buttons	LIQUID CRYSTAL DISPLAY (LCD)			

NOTE: *The SINEO 1K65 offer other two different voltage ranges*	SINEO 1K65	
	2nd Option	3rd Option
Solar generator voltage:	150 Vdc to 300 Vdc	200 Vdc to 420 Vdc
MPPT operating range:	160 V to 270 V	220 V to 400 V



LCD DISPLAY

SINEO-3K3 IN EQUIPMENT ROOM