

Certificate of Conformity

Certificate Number: CN-PV-230558

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacture(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Elmark Industries SC
	2 Dobrudzha blvd., 9300, Dobrich, Bulgaria
Product:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	ELM1H1K-1, ELM1H1.5K-1, ELM1H2K-1, ELM1H2.5K-1, ELM1H3K-1, ELM1H3.6K-1, ELM1H3K, ELM1H3.6K, ELM1H4K, ELM1H4.6K, ELM1H5K, ELM1H5.5K, ELM1H6K
Brand Name <s>:</s>	EĽMARK
Product Complies with:	EN 50549-1:2019 Requirements for the connection of generation equipment in parallel with public distribution networks.
Certificate Issuing Office	Intertek Testing Services Ltd. Shanghai
Name & Address:	West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China
	Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No. <s>:</s>	2308A0283SHA-001

Additional information in Appendix.

Signature

Certification Manager: Qiao Qiao Date: 28 September 2023



PRD Nº 306B



APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230558

Ratings & Principle Characteristics:

	Specifi	cations table			
Model	ELM1H1K-1	ELM1H1.5K -1	ELM1H2K-1	ELM1H2.5K -1	ELM1H3K-1
Input					
Ppv Max (W)	1500	2300	3000	3800	4500
Vmax PV (V)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26	26	26	26	26
Number of MPP trackers	1	1	1	1	1
Number of input strings	1	1	1	1	1
Max. PV input range (A)	18.5	18.5	18.5	18.5	18.5
MPPT Voltage Range (V)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (V)	80-500	90-500	120-500	150-500	170-500
Battery (input and output)					L
Battery type	11	Li-	ion / lead acid e	etc.	
Battery Nominal Voltage (V)		51.2			
Battery Voltage Range (V)	40-60				
Max. Charge/Discharge Current (A)	25	40	50	63	80
Max. Charge/Discharge Power (W)	1000	1500	2000	2500	3000
AC Grid (input and output)			I		L
Nominal Voltage (V)		-	L/N/PE. 230Va	0	
Nominal Frequency (Hz)			50		
Max. continuous Input/output	_	7	10	40	
Current (A)	5	7	10	12	14
Nominal Power (W)	1000	1500	2000	2500	3000
Max. Power (W)	1000	1500	2000	2500	3000
Max. apparent Power (VA)	1000	1500	2000	2500	3000
Power Factor	1(-0.8~+0.8 adjustable)				I
AC Load output					
Nominal Output Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output	F	7	10	40	4.4
Current (A)	5	7	10	12	14
Nominal Output Power(W)	1000	1500	2000	2500	3000
Max. Output Power (W)	1000	1500	2000	2500	3000
Max. apparent Power (VA)	1000	1500	2000	2500	3000
Power Factor			1		
others					
Ingress protection (IP)	IP65				
Temperature (°C)	-25°C to +60°C (Derating45°C)				
Inverter Isolation	Non-isolated				
Firmware Version	V06				



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Ratings & Principle Characteristics:

	Specific	cations table			
Model	ELM1H3.6K -1	ELM1H3K	ELM1H3.6K	ELM1H4K	ELM1H4.6K
Input					
Ppv Max (W)	5400	4500	5400	6000	6900
Vmax PV (V)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26	26 x 2	26 x 2	26 x 2	26 x 2
Number of MPP trackers	1	2	2	2	2
Number of input strings	1	1/1	1/1	1/1	1/1
Max. PV input range (A)	18.5	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
MPPT Voltage Range (V)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (V)	210-500	90-500	110-500	120-500	130-500
Battery (input and output)					
Battery type	1.1	Li	-ion / lead acid e	etc.	
Battery Nominal Voltage (V)	51.2				
Battery Voltage Range (V)	40-60				
Max. Charge/Discharge Current (A)	80	80	80	80	80
Max. Charge/Discharge Power (W)	3600	3000	3600	4000	4600
AC Grid (input and output)					
Nominal Voltage (V)		10.1	L/N/PE. 230Vad	;	
Nominal Frequency (Hz)			50		
Max. continuous Input/output	47		47	10	
Current (A)	17	14	17	19	22
Nominal Power (W)	3600	3000	3600	4000	4600
Max. Power (W)	3600	3000	3600	4000	4600
Max. apparent Power (VA)	3600	3000	3600	4000	4600
Power Factor		1(-().8~+0.8 adjusta	ıble)	
AC Load output		x		,	
Nominal Output Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	17	14	17	19	22
Nominal Output Power(W)	3600	3000	3600	4000	4600
Max. Output Power (W)	3600	3000	3600	4000	4600
Max. apparent Power (VA)	3600	3000	3600	4000	4600
Power Factor			1		
others					
Ingress protection (IP)			IP65		
Temperature (°C)	-25°C to +60°C (Derating45°C)				
Inverter Isolation	Non-isolated				
Firmware Version	V06				



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Ratings & Principle Characteristics:

	Specif	ications table		
Model	ELM1H5K	ELM1H5.5K	ELM1H6K	
Input				
Ppv Max (W)	7500	8300	9000	
Vmax PV (V)	550	550	550	
Isc PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2	
Number of MPP trackers	2	2	2	
Number of input strings	1/1	1/1	1/1	
Max. PV input range (A)	18.5 x 2	18.5 x 2	18.5 x 2	
MPPT Voltage Range (V)	80-500	80-500	80-500	
Vdc range @ full power (V)	150-500	160-500	170-500	
Battery (input and output)				
Battery type		Li-i	on / lead acid e	tc.
Battery Nominal Voltage (V)			51.2	
Battery Voltage Range (V)		40-60		
Max. Charge/Discharge Current (A)	80	80	80	
Max. Charge/Discharge Power (W)	4800	4800	4800	
AC Grid (input and output)				
Nominal Voltage (V)		1.00	_/N/PE. 230Vac	
Nominal Frequency (Hz)		- 10	50	
Max. continuous Input/output	23	26	28	
Current (A)	23	20	20	
Nominal Power (W)	5000	5500	6000	11
Max. Power (W)	5000	5500	6000	11
Max. apparent Power (VA)	5000	5500	6000	
Power Factor	1(-0.8~+0.8 adjustable)			
AC Load output				
Nominal Output Voltage (V)		1	_/N/PE. 230Vac	
Nominal Frequency (Hz)	50			
Max. continuous Input/output Current (A)	23	26	28	
Nominal Output Power(W)	5000	5500	6000	
Max. Output Power (W)	5000	5500	6000	
Max. apparent Power (VA)	5000	5500	6000	
Power Factor			1	
others				
Ingress protection (IP)	IP65			
Temperature (°C)	-25°C to +60°C (Derating45°C)			
Inverter Isolation	Non-isolated			
Firmware Version	V06			