



Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization



High Performance

- 160% PV input capacity to maximize solar energy utilization
- Switching time < 10ms



Flexible & Scalable

- Compatible with mainstream lithium and lead-acid batteries
- Easily expand system capacity using parallel connections and AC coupling



Simple & Fast Configuration

- 7-inch LCD screen for an intuitive user experience
- Bluetooth app support for quick and easy setup





S6-EH1P(3-10)K-L-PLUS

Models	3K	3.6K	5K	6K	8K	10K	
Input DC (PV side)							
Recommended max. PV array size	6 kW	7.2 kW	10 kW	12 kW	16 kW	20 kW	
Max. usable PV input power	4.8 kW	5.76 kW	8 kW	9.6 kW	12.8 kW	16 kW	
Max. input voltage			50	V			
Rated voltage			33) V			
Start-up voltage			90	V			
MPPT voltage range			90 - 4				
Max. input current		16.Δ	/ 16 A	155 V	32 A / 32 A	42 A / 42 A	
Max. short circuit current			/ 20 A		40 A / 40 A	48 A / 48 A	
MPPT number / Max. input strings number		2/2					
Battery							
Battery type		Li-ion / Lead-acid					
Battery voltage range			40 -	60 V			
Max. charge / discharge power	3 kW	3.6 kW	5 kW	6 kW	8 kW	10 kW	
Max. charge / discharge current	70 A	80 A	112 A	135 A	190 A	208 A	
Communication			CAN /	RS485			
Output AC (Grid side)							
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW	10 kW	
Max. apparent output power	3 kVA	3.6 kVA	5 kVA	6 kVA	8 kVA	10 kVA	
	JNVA	3.0 KVA	L/N		ONVA	10 KVA	
Operation phase							
Rated grid voltage			220 V ,				
Rated grid frequency			50 Hz ,				
Rated grid output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	45.5 A / 43.5 A	
Max. output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	45.5 A / 43.5 A	
Power factor			> 0.99 (0.8 leadi	ng - 0.8 lagging)			
THDi			< 3	%			
nput AC (Grid side)							
nput voltage range			187 -	253 V			
Max. input current	21 A	25 A	32 A	40 A	50 A	65 A	
	ZIA	237			30 A	05 A	
Frequency range			45 - 55 Hz ,	55 - 65 HZ			
Output AC (Back-up)							
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW	10 kW	
Max. apparent output power			2 times of rate	ed power, 10 s			
Back-up switch time			< 10	ms			
Rated output voltage			L/N/PE, 22	0 V / 230 V			
Rated frequency			50 Hz	60 Hz			
Rated output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	45.5 A / 43.5 A	
Max. AC passthrough current	35 A	35 A	40 A	40 A	50 A	65 A	
THDv (@linear load)	3371	3371	<2		3071	0371	
, ,			~ _	.70			
Input Generator	2 144	2.61.11	E 1.447	6 kW	8 kW	10 1.00	
Max. input power	3 kW	3.6 kW	5 kW			10 kW	
Max. input current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	45.5 A / 43.5 A	
Rated input frequency			50 Hz ,	60 Hz			
Efficiency							
Max. efficiency			96.	2%			
EU efficiency			96.	1%			
BAT charged by PV / AC max. efficiency			95.3%	93.9%			
BAT discharged to AC max. efficiency			93.				
Protection				570			
Ground fault monitoring			Ye	00			
~							
DC reverse-polarity protection			Ye				
ntegrated AFCI 2.0			Opti				
Protection class / Over voltage category		1/11	(PV and BAT), III (MAII	IS and BACKUP and (GEN)		
General Data							
Dimensions (W × H × D)			335 × 560	× 253 mm			
Veight		23 kg		23.	5 kg	24 kg	
Гороlоду		- 0	High frequency isc		- 0	0	
Operating ambient temperature range			-40 ~				
ngress protection			IP				
Noise emission (typical)			< 65				
Cooling concept		Natural cooling			Intelligent fan-cooling	5	
Max. operation altitude			300	0 m			
Grid connection standard	NRS 097-2-1,	EC 62116, IEC 61727, I	EC 60068, IEC 61683, I	N 50530, MEA, PEA, N	NBR 16149, NBR 16150	, G98, CEI 0-21	
Safety / EMC standard			IEC/EN 62109-1/-2				
Features				,			
DC connection		Λ	IC4 plug (PV port) / Te	minal Block (BAT no	rt)		
		ĮV			i cj		
AC connection			Termina				
Display			7.0" LCD display 8				
Communication			RS485, CAN, Option	al·Wi-Fi GPRS LAN			





S6-EH1P(3-10)K-L-PLUS S6-EH1P(3-8)K-L-PLUS-AU

Compatible Battery List

Battery type: Lead carbon / Lead-acid

Supports all brands of lead-acid and lead-carbon batteries

Туре	Brand		Мс	del			HMI Version	Battery Model
	AlpSolarr		COMO L1-5.0/7.	5/10/12.5/15-M0			V06-10	Lithium Battery LV
	Amararaja			0048-V1			V06-10	Lithium Battery LV
	Ampace	R-P48128EDB1/R	SP-5000L		DA1 AL4	18-100-3U	V06-10	Lithium Battery LV
	Apex			12			V06-10	Lithium Battery LV
	AISUN			/6/10/16			V06-10	Lithium Battery LV
	Averge			8100-S2			V06-10	Lithium Battery LV
	BETTENERGY			SHELL			V06-10	Lithium Battery LV
			B-LFP48-52/100/13	4/156/174/200/2	80E			
	BSLBATT	B-LFP48-100/174/20			PowerLine-5		V06-10	Lithium Battery LV
			Battery-	Box LV5.0				
	BYD	Battery-Box Pre	mium LVS	Batt	ery-Box Premium	LVL	V04-07	B_BOX_LV BYD
		Battery-Box Pro			attery-Box Pro 13.8	8		
	Cegasa		E/B	ick LV			V04-07	Lithium Battery LV
	CURENTA		CUR	5000H			V04-07	Lithium Battery LV
	CFE		CFE	-5100			V04-07	CFE LV
	DAHAI	SDC10-Box5 L	V Series		DHLV-LFP-5000		V04-07	Lithium battery LV
	DMEGC	L01-481	00		L02-48100		V04-07	Lithium Battery LV
	Dowell	iPack C3	3.3		iPack C6.5		V04-07	Dowell
	Duracell	DURACEL	L 5+		Dura 7		V06-10	Dyness LV
	Dyness	DL LV Series	Power	LV Series	A/B/BX LV	/ Series	V04-07	Dyness LV
	Easyway		UNI	/5200			V06-10	Lithium Battery LV
	Enorbond	GTEF-48V5.5K/1	0K/15K-W	GTEF	-48V3000/5000/75	00-E	V06-10	Lithium Datton/IV
	Enerbond	GTEM-48V5500/7	400/7600-E	GTEF	GTEF-48V10K-E		A00-10	Lithium Battery LV
	eenovance		MA				V06-10	Lithium Battery LV
	EITAI		LV Lithiur	n batteries			V06-10	Lithium Battery LV
	EON		EL	.5W			V06-10	Lithium Battery LV
	EXIDE		LIBMO	048050			V04-07	Lithium Battery LV
	FEB	PowerArt LV5	320-W1	P	owerArt LV5120-R1	1	V06-10	Lithium Battery LV
	Felicitysolar	LPBA Series	LPBF Series	EC Serie	s E	EC5000	V06-10	Lithium Battery LV
Lithium	FinDreams		FD-	LV5.0			V06-10	FD
	Battery FOX	LV52/5	4		LV5200		V04-07	FOX-LV
	Freedom	LV3Z/3		Won Lite	LVJZUU		V04-07	FreedomWon-LV
	GETPOWER			1.8kWh RACK 19"			V04-07	Lithium Battery LV
	Genixgreen	ES-BOX2/5/12/26			ES-BOX12	/26MAY	V04-07 V06-10	Lithium Battery LV
	Green Solutions	L3-D0/2/3/12/20		/ HOME E10	LJ-DOX12	ZUMAN	V04-07	Lithium Battery LV
	GREENRICH	AU5500/7500/9000	110ML LJ ,	VM/2200 C3	DDO \\\\\/7500	0 WM5000	V04-07 V06-10	Greenrich
	GS ENERGY	GS-LV-2.5					V04-07	GS Energy LV
	OS LIVLINGT		GSL7000U				VOT 01	OS LITCIBY LV
	GSL ENERGY	GSL-051100A/200A/280			GSL-W-15K/20K		V04-07	GSL-LV
	JJE LIVEITOI	GSL-51-100/200			SL-ZN-P48100ESA:		V 0-1 0 1	OJL LV
	Haier	HLS-1X5/10/15/20K	HI R-1X5/10/15/20K	B051100P0		1100P02-H	V04-07	Haier LV
			Atom W					
	HaiLei	HERO-LVA51210			n LS-5.12/10.24/15		V06-10	Lithium Battery LV
		HV-R-HV20K-76			.6-R-HV71K-215K S			
	HARVEYPOW	HV-S20-HV71K-2			HV-SS-5HV Series		V04-07	Lithium Battery LV
	HD ENERGY	3U-489			CM101607		V04-07	KODAK-LV
	HIGHSTAR	30 103		5870	0101001		V04-07	Lithium Battery LV
	HTES		HELIO				V04-07	Lithium Battery LV
	HOENERGY	iBAT-R-5.12L	iBAT-V		iBAT-M-	5.321	V06-10	Lithium Battery LV
	Homegrid		PF5-LFP1		15/11 111		V06-10	Lithium Battery LV
	Hubble	AM2,/2+			AM10,/10+	BLADE+	V06-10	Lithium Battery LV
	JA SOLAR	,,		ck-L-06/09H-1			V04-07	J-Pack-LV
	Juel			al/Juel Industrial			V04-07	Lithium battery LV
	KODAK			.5.2			V04-07	KODAK-LV
	LBSA			Ah 5.3kWh			V04-07	Lithium battery LV
	Leapton	EL-A2.56	51.2V 104	A05	EL-B	0.5	V06-10	Lithium Battery LV
	LEDVANCE	LL / L.00	EL: LES-	IV-5K	LL D		V06-10	Lithium Battery LV
	LLD V/ II VCL						V06-10	Lithium Battery LV
	LithiumValley		LV-BAT-	R5 12Aa				



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Туре	Brand		Мо	odel			HMI Version	Battery Mod
	LVTOPSUN	LV48100		LV	/TS-5121	00/200/300	V06-10	Lithium Battery I
	Magneto	Ma	gneto 5.12KWH	51.2V LiFePO4 Ba	ttery		V06-10	Lithium Battery I
	Magneto							
	Renewable	EVO100 (IMS202)	EVO200) (IMS203)		EVO280 (IMS204)	V06-10	Lithium Battery I
	Energy		. ==					
	MENRED ESS			V/LFP.6144.G			V06-10	Lithium Battery I
	MERITSUN	POWERWALL BATTERY		ULE BATTERY		STACK BATTERY	V06-10	Lithium Battery I
	Moura	-		ISL100	137		V06-10	Lithium Battery
	MK ENERGY NAHUI	3		KWH , MK Lithium V-1Y5K	1 LV		V06-10 V06-10	Lithium Battery NAHULLV
	Narada			v-115N R48100			V06-10 V06-10	Lithium Battery
	OLITER	OT4850/100/120/150/200/206/2			n/15n/20	0/206/280/300/304/314	V06-10	Lithium Battery
	PAND	Powerfree-S		rfree 5-U	.0/150/20	Powerfree 12	V04-07	PAND
	Phylion	1011011000		5-32)-X01		7 0 77 0 72	V06-10	Lithium Battery
	powerESS Li.ON	03	347515 powerES	SS Li.ON 51.2V-10	0Ah		V06-10	Lithium Battery
	PUREDRIVE	48V-100Ah			Du	ra 7	V04-07	PureDrive-LV
		Force L1 (CEI 0-21) For	ce L2 (CEI 0-21)	US2000 (CEI	0-21)	US3000 (CEI 0-21)		
	PYLONTECH	US2000C (CEI0-21) US3	8000C (CEI0-21)	US5000 (CEI	0-21)	UP5000	V04-07	PYLON_LV
		US2000B US3000A	Pelio-L-5.12	Phantom-S (C	EI0-21)	US2000 PLUS		
	Pytes	E-BOX-48100R		/V5°α		ESS48-2U-L	V04-07	Lithium Battery
	,	V10/V10a/V12/V12a	Pi LV1	V5°αPlu		V15		Eleman Baccery
	RAYSTECH			10854 SOLID BAT			V06-10	Lithium Battery
	Renon	R-XL015031-H R-XC005161	R-EB005161		015031/0	20041/025051/030061	V06-10	Lithium Battery
	RISING	AIR 5220-S		0/5220-3U		AIR 10/15K5	V06-10	Lithium Battery
	RITAR			.0KWH/15KWH-51	L.2V	15040/000411	V06-10	Lithium Battery
	ROSEN	LFP48V100AH		BV150AH	/F 10 00	LFP48V200AH	V04-07	ROSEN ESS
	SEC POWER	BATERIA 5,12kWh RACK19			(5,12 ~20	,48) kWh TORRE LV	V04-07	Lithium Battery
	Shoto SKYLINE			x/HP10-Box			V06-10	Lithium Battery
	SolarEast	PowerCool-LFP-WL\		Batt L5	owor(oo	l-WLL005F1	V06-10 V06-10	Lithium Battery Lithium Battery
	SOLANA			/H , SOLANA Lithi		I-MULUUSFI	V06-10 V06-10	Lithium Battery
	SOLUNA	BATTERY MODULE 4h				OS 5K Pack	V04-07	Soluna-LV
Lithium	302014/1	STE-BSG-5220		SW-5220	otulia Et	BU 5220	104 01	Solulla EV
	STELTEC	STE-BSW-5120		SW-10240		STE-BSW-14336	V06-10	Lithium Battery
	SUNKET	LFP 5/10/16kW			LFP500	0/16000	V06-10	Lithium Battery
		Atrix-5/10/15/20		k basic		B051100P02		1
	SUNWODA	SunESS-5/10/15/20		100P03		MonaWall 5	V04-07	SUNWODA LV
		LiFePO4 10.24 kW SUEN	V-51-200	attery LiF	ePo4 5.1	2 kW SUEN-51-100		
	SUEN	Battery 2.56 kW SUEN-P	5150ESA 1	Battery Li	FePo4 5.	12 kW SUEN-5000U	V06-10	Lithium Battery
			Battery LiFePo4	30 kW SUEN-R30	K			
	Synapse		5k	(0-LV			V06-10	Lithium Battery
	Taico		51.2V 100Ah l	_iFePO4 Battery			V06-10	Lithium Battery
	TGPRO	TG-PW Wall mount S			TG-PW R	ack Series	V06-10	Lithium Battery
		TG-TH Mobile Ser			TG-Stacl	k LV series		Eleman Battery
	TOPBAND			N/RS-C/RS-S			V06-10	Lithium Battery
	UCB POWER	UPLFP48V 100Ah	IW	L	JPLFP48	/ 200Ah IW	V04-07	Lithium Battery
	Uhome Smart	Uhome-LFP 2400/250	0/5000	Uho	me-LFP 5	5120M/10240M	V04-07	AoBo-LV
	Energy(Wuxi) Co., Ltd.		Uhome-LFP	5/5.8/10kWh LV			VU4-U1	AUDU-LV
								Upower UE-H
	Upower	Upower UE-H			Upow	er UE-I	V04-07	Upower UE-I
	UIENERGIES		WALV 5-16K /I	ELESHELL 5-16K			V04-07	Lithium Battery
	UZ energy							
	(powered by CATL)	Power Lite L05110	0-A1		L051	100-A	V04-07	UZ ENERGY-L'
			\ / F \ A (T Corios			V/0C 10	Lithium Datt
	Vestwoods	VT 12040 1		T Series		VT 51200W/P	V06-10	Lithium Battery
	V-TAC	VT-12040-1 VT-10240W/B	V I	48280	\/T. 1.41	VT-51200W/B 336W/B	V06-10	Lithium Battery
	Vinfast	v I-1U24UVV/B	DOM	ER CUBE	V 1-14.	030VV/D	V/06_10	Lithium Patton
	viiiiaSt	4K4PRO		s ultra		5K3 EVO	V06-10	Lithium Battery
	WECO	DUAL VOLTAGE 5K3			VOLTAG	E 5K3-XP LV/HV	V04-07	WECO-LV
	YelonESS	LR5000	/	DOAL		5000	V06-10	Lithium Battery
	YOLANESS	21.3000	RS-R/RS-V	N/RS-C/RS-S	L+V.		V06-10	Lithium Battery
							V04-07	Lithium Battery
	YOSHOPO		YOSHOP	O LV1.0/2.0			VU4-U1	LIUIIUIII Dallei V

- Details correct at time of going to press.
- Batteries to be purchased separately.
- The battery brand in the table above, if there is no corresponding option when selecting the battery model, you can select the "lithium battery" option to work.



No. D 086470 0198 Rev. 00

Holder of Certificate: Ginlong Technologies Co., Ltd.

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PEOPLE'S REPUBLIC OF CHINA

Product: Converter

Hybrid Inverter

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 4840924302500

Date, 2024-06-28

(Ming Gu)



No. D 086470 0198 Rev. 00

Model(s): S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS,

S6-EH1P4.6K-L-PLUS, S6-EH1P5K-L-PLUS,

S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS

S6-EH1P3K-L-PLUS-AU, S6-EH1P3.6K-L-PLUS-AU, S6-EH1P5K-L-PLUS-AU, S6-EH1P6K-L-PLUS-AU,

S6-EH1P8K-L-PLUS-AU

Parameters:

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS		
PV-Input		•	•		
Max. input voltage d.c.		500 V			
Mppt voltage range d.c.		90-435 V			
Max. input current d.c.		2x16 A			
Isc PV (absolute maximum) d.c.		2x20 A			
Battery					
Battery type		Li-ion/Lead-acid			
Battery Voltage range d.c.		40-60V			
Max. Charge/discharge current d.c.	70A /70A	80A /80A	105A /105A		
AC-Output (Back-up)					
Max. /Rated output power a.c.	3000W	3600W	4600W		
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V		
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz		
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	20.9A/20A		
AC-Output (Grid side)			•		
Max. /Rated apparent output power a.c.	3000VA	3600VA	4600VA		
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V		
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz		
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	20.9A/20A		
Power factor range		-0.81+ 0.8			
Protective class		1			
Ingress protection	IP66				
Ambient temperature	-40+60℃				
AC-Input (For grid port and C	Gen port)				
Nominal voltage a.c.		1/N/PE, 220V/230V			
Max. /Rated continuous current	21A/20A	25A/24A	29A/28A		
Nominal Frequency		50/60Hz			

Model	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
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No. D 086470 0198 Rev. 00

PV-Input					
Max. input voltage d.c.	500 V	500 V	500 V		
Mppt voltage range d.c.	90-435 V	90-435 V	90-435 V		
Max. input current d.c.	2x16 A	2x16 A	2x32 A		
Isc PV (absolute maximum) d.c.	2x20 A	2x20 A	2x40 A		
Battery					
Battery type		Li-ion/Lead-acid			
Battery Voltage range d.c.		40-60V			
Max. Charge/discharge current d.c.	112A /112A	135A /135A	190A /190A		
AC-Output (Back-up)					
Max. /Rated output power a.c.	5000W	6000W	8000W		
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V		
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz		
Max. /Rated output current a.c.	22.8A/21.8A	27.3A/26.1A	36.4A/34.8A		
AC-Output (Grid side)					
Max. /Rated apparent output power a.c.	5000VA	6000VA	8000VA		
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V		
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz		
Max. /Rated output current a.c.	22.8A/21.8A	27.3A/26.1A	36.4A/34.8A		
Power factor range		-0.81+ 0.8			
Protective class		I			
Ingress protection	IP66				
Ambient temperature	-40+60℃				
AC-Input (For grid port and G	en port)				
Nominal voltage a.c.		1/N/PE, 220V/230V			
Max. /Rated continuous current	32A/31A	40A/39A	50A/50A		
Nominal Frequency		50/60Hz			

Model	S6-EH1P3K-L-PLUS-AU	S6-EH1P3.6K-L- PLUS-AU		
PV-Input				
Max. input voltage d.c.	500 V			
Mppt voltage range d.c.	90-435 V			
Max. input current d.c.	2x16 A			
Isc PV (absolute maximum) d.c.	2x24 A			
Battery	•			
Battery type	Li-ion/Lead-acid			
Battery Voltage range d.c.	40-60V			



No. D 086470 0198 Rev. 00

Max. Charge/discharge current d.c.	70A /70A	80A /80A		
Max. /Rated output power a.c.	3000W	3600W		
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V		
Nominal Frequency	50Hz	50Hz		
Max. /Rated output current a.c.	13.1A	15.7A		
Max. /Rated apparent output power a.c.	3000VA	3600VA		
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V		
Nominal Frequency	50Hz	50Hz		
Max. /Rated output current a.c.	13.1A	15.7A		
Power factor range	-0.81+ 0.8			
Protective class	I			
Ingress protection	IP66			
Ambient temperature	-40+60°C			
AC-Input (For grid port and Gen port)				
Nominal voltage a.c.	1/N/PE, 230V			
Max. /Rated continuous current	20A 24A			
Nominal Frequency	50/60Hz			

Model	S6-EH1P5K-L-PLUS- AU	S6-EH1P6K-L-PLUS- AU	S6-EH1P8K-L-PLUS- AU		
PV-Input					
Max. input voltage d.c.	500 V	500 V	500 V		
Mppt voltage range d.c.	90-435 V	90-435 V	90-435 V		
Max. input current d.c.	2x16 A	2x16 A	2x32 A		
Isc PV (absolute maximum) d.c.	2x24 A	2x24 A	2x48 A		
Battery			•		
Battery type		Li-ion/Lead-acid			
Battery Voltage range d.c.	40-60V				
Max. Charge/discharge current d.c.	112A /112A	135A /135A	190A /190A		
AC-Output (Back-up)					
Max. /Rated output power a.c.	5000W	6000W	8000W		
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V	1/N/PE,230V		
Nominal Frequency	50Hz	50Hz	50Hz		
Max. /Rated output current a.c.	21.8A	26.1A	34.8A		
AC-Output (Grid side)			•		
Max. /Rated apparent output power a.c.	5000VA	6000VA	8000VA		
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V	1/N/PE,230V		
Nominal Frequency	50Hz	50Hz	50Hz		



No. D 086470 0198 Rev. 00

Max. /Rated output current a.c.	21.8A	26.1A	34.8A		
Power factor range	-0.81+ 0.8				
Protective class		1			
Ingress protection	IP66				
Ambient temperature	-40+60℃				
AC-Input (For grid port and Ger	port)				
Nominal voltage a.c.	1/N/PE, 220V/230V				
Max. /Rated continuous current	31A 39A 50A				
Nominal Frequency	50/60Hz				

Tested IEC 61000-6-1:2016 IEC 61000-6-2:2016 IEC 61000-6-3:2020 IEC 61000-6-4:2018

IEC 61000-3-2:2018/AMD1:2020 IEC 61000-3-12:2011/AMD1:2021 IEC 61000-3-3:2013/AMD2:2021

IEC 61000-3-11:2017 IEC 62920:2017/A1:2021



Ginlong Technologies Co., Ltd.

Add: No. 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo, Zhejiang, 315712, P.R.China Tel: +44 151 453 6515 | Web: www.solisinverters.com | E: euservice@solisinverters.com



Limited WARRANTY - EUROPE

Solis Inverters and accessories are manufactured by Ginlong Technologies Co., Ltd. (referred to as "Ginlong") which provides the following Limited Warranty to the purchaser (referred to as "Customer") of the inverters and accessories (referred to as "Products"). (Customer is deemed to be the owner of the installed Products at first sale and to whom it is transferred to.)

1. Limited Warranty Terms

Ginlong warrants all Products to be free from defects in material and function under normal use and service from the date of sale to the Customer. This Limited Warranty extends the Customer's statutory rights and cannot be construed so as to diminish such statutory rights.

All grid tied inverters and hybrid inverters receive: 5 Year Warranty

(All 4G, 5G/S5 & S6 Models)

All accessories receive: 2 Year Warranty - (3 years for España)

(DLS-W, DLS-LAN, DLS-G, DLB-W, DLB-G, RF-Link, S2-RF-ST, S3-WIFI-ST, S2-WL-ST, S1-W4G-ST, S3-Logger, S4-WIFI-ST, S4-WIFI-ST, PLC-CCO, EPM1-5G, EPM3-5G, EMP3-5G-PLUS, EPM3-5G-PRO, 4G-CT, Eastron and Acrel Meters)

For the duration of this period Ginlong guarantees the proper functions of the Products. The Limited Warranty shall be executed by the terms included here but not limited to PO/PI/CI of goods.

The Limited Warranty period begins when the Product is-

(1) Commissioned at the installation

Or

(2) 6 months after the Product is dispatched from the factory depending on which occurs first.

2. Limited Warranty Extension

The Customer may apply for a Limited Warranty extension within 12 months of installation by providing the relevant inverter serial number along with proof of purchase. An extended Limited Warranty can be purchased to provide the following:

10 Years total / 15 Years total / 20 Years total

Limited Warranty extension certificates will be provided to confirm the extension upon

purchase. Limited Warranty extensions are subject to the same terms and conditions as the standard Limited warranty period.

Until further notice from 1st July 2020 (Benelux region starts at 16th of March 2016), the following countries automatically receive a 10-year Warranty extension for grid tied inverters less or equal to 10kW in rating:

Holland, Belgium, France, Germany, Poland, Italy (Subject to change)

3. Warranty Limitations

The Limited Warranty is valid only for Products purchased either directly from Ginlong or from an authorised reseller of Ginlong. The Limited Warranty applies to brand new product only. The Limited Warranty does not cover:

- Access, labour or transport costs;
- Consequential damages including but not limited to loss of revenue;
- Claims by third parties other than the owner;
- If Products are damaged as a consequence of not installing in accordance with the installation instructions as contained within the Product installation manual. (Except where the installation is performed by Ginlong);
- Items ancillary to installation not supplied by Ginlong;
- Duties, import/export fees or costs and other general administrative costs;
- Damage to Products caused by misuse, improper handling or unauthorised modification;
- Loss or damage occurring whilst in transit;
- Accidental (for any damage or defect caused by lightning, flood, power surge, fire, pest
 damage, corrosion, actions of third parties or any other act of Force Majeure, event or accident
 outside Ginlong's reasonable control and not arising under normal and standard operating
 conditions;) or wilful damage;
- Any Products described in a quotation or delivery note as 'ex-display' or 'reconditioned'. (A separate Limited Warranty extension may have been issued to cover such Products)
- If Products are not initially purchased from Ginlong or the authorised reseller of Ginlong;
- If Products are out of the Limited Warranty period;
- If the fault has been caused by another component in the Limited Warranty holder's photovoltaic system; or could not be identified upon examination of Products;
- The replaced Products have not been returned to Ginlong or the authorised reseller in time; unless the Products was installed correctly by a qualified installer and as per the installation instructions supplied with the Products or installed by Ginlong or the authorised reseller;
- Unless the Limited Warranty holder has paid in full all amounts owing to Ginlong by the Limited Warranty holder;
- If the defect occurs wholly or partially as a result of any act or omission by the Limited Warranty holder, or any person other than a person employed or sub-contracted by Ginlong;
- If the Products are not satisfactorily maintained, is subject to misuse, neglect, accident or abuse or the Limited Warranty holder continues to use the Products after the defect becomes

apparen

- If the Products are repaired, or any attempt to repair the Products are made, by anyone other than authorised by Ginlong;
- If the Products are moved for any reason after it has been installed (regardless of whether the
 Products are subsequently reinstalled or moved back to the same location) unless the
 Products are reinstalled at the same address by a qualified installer and it is stored during
 any interim period in accordance with the Product manual;
- If the Products are altered or modified in any way (including if the Products' serial or identification number is altered, defaced or removed) unless such modification has been approved in writing by Ginlong;
- Use of battery types not certified and listed on Solis approved battery compatibility list for
 operation with Solis Energy Storage Inverters as well as batteries on user defined option.
- For any other fault which does not affect the basic performance of the Products, notwithstanding any external scratch or stain, or natural mechanical wearing which does not represent a defect or normal wear and tear.

4. Data Protection

If the Customers accept the Limited Warranty service provided by Ginlong, the Customers allow Ginlong to access, collect and process information related to failure, detection, identifying and debugging when providing services. Such information will only be used to provide Limited Warranty services. Since Customers are the controllers of such information, Ginlong cannot confirm whether such information contains confidential information or personal data of the Customers.

Customers should ensure that they will obtain or retain all necessary consent, permission and authorisation ("Consent") in accordance with applicable legal requirements for Ginlong to provide such service, so that Ginlong will not violate applicable legal requirements, Customers privacy policies, or Customer user-agreements in providing related services.

Ginlong will take reasonable measures to ensure the security of such Customer information, but Ginlong is not responsible for any direct or indirect liability caused by the acquisition and processing of such information in the process of providing services.

If the Customer returns the Products to Ginlong, it indicates that the Customer has backed up any confidential, private, personal or other information stored in the Products and has completely deleted such information from the Products, and authorises Ginlong to transfer the Products to the Ginlong service centre in other countries for maintenance. Customers shall be solely responsible for deleting the above information before delivering the hardware to Ginlong. They shall also further indemnify, defend and hold hamless Ginlong from and against any and all claims, liabilities, obligations, costs, expenses, penalties, fines, confiscations and ruling imposed by any government agency or third party as a result of Ginlong failing to comply with applicable laws and regulations in transferring and disposing of the above information.

Ginlong does not guarantee the data stored in the Products; the Customers are responsible for backing up relevant data to prevent loss.

5. Limited Warranty Claims Procedure

To make a Limited Warranty claim the following information needs to be provided within 30 days of acknowledge of the issue:

- Completed Limited Warranty Claim Form Provided by Solis Service Agent
- Products Model (i.e. S6-GR1P3.6K) and Products Serial Number (ie.160D72198270017)
- Copy of the invoice for the inverter
- Copy of the installation report/certificate

If Ginlong receives a legitimate written claim, Ginlong shall, at its discretion:

- Provide replacement Product; which will be functionally equivalent to the Customer's defective device (in terms of features, function, compatibility).
 or
- Instruct an accredited service provider to attend the Customer's premises and repair the defect or provide a replacement Product(s);
- Direct the Customer to return the Products to Ginlong so that Ginlong may repair or provide a replacement Product(s).

Ginlong may, at it its own discretion, use new or factory refurbished Products for replacement.

Ginlong may repair or replace faulty components at its discretion. If the Products or any part thereof is replaced by Ginlong under this Limited Warranty, all of the rights, title and interests in the replaced Products or parts, shall vest in Ginlong upon it being replaced.

The cost for replacement of the device will not be covered by Ginlong.

Any Products replaced or repaired under this Limited Warranty will be covered by the Products remaining Warranty period, or three months, whichever is greater.

The Limited Warranty holder must return replaced parts or devices in the original packaging or equivalent. If the replaced faulty part or device is not received by Ginlong within 30 days, the Limited Warranty holder will be charged for the part/device at the current price for a new part/device.

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Shipment and inverter replacement cost will be invoiced if inverter is found to be not faulty. Labour, travel and delivery (to and from Customer) will be charged if Products returned are found to be not faulty following a Limited Warranty claim.

A claim for compensation cannot be made for any loss of profit, (including energy that has not

been fed into the grid or energy that has not been used for self-consumption, etc.) In any case, whether in contract, tort or otherwise, the maximum compensation for Customer losses caused by its fault shall not exceed the amount paid by the Customer for the purchase of the equipment.





EU Declaration of Conformity - CE

This is to declare that the products listed below have been manufactured according to the following EU directives:

- Radio Equipment Directive 2014/53/EU (RED)
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility 2014/30/EU
- 2011/65/EU RoHS Directive
- WEEE Directive 2012/19/EU

Manufacturer	Ginlong Technologies Co., Ltd.
Address	NO.57 Jintong Road, Binhai Industrial Park, Xiangshan Ningbo, Zhejiang, 315712, P.R.China
Product Type	Hybrid Inverter
Model	S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS, S6-EH1P5K-L-PLUS, S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS

The following standards have been applied according to the aforementioned directives:

RED, Article 3.1a

Low Voltage Directive 2014/35/EU

EN 62109-1:2010, EN 62109-2:2011

RED, Article 3.1b

Electromagnetic Compatibility 2014/30/EU

EN 55011:2016+A1:2017+A11:2020+A2:2021

EN IEC 61000-3-11:2019, EN 61000-3-12:2011

EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019

EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019

EN 301489-1 V2.2.3:2019, EN 301489-17 V3.2.4:2020

EN 62920:2017+A11:2020+A1:2021

RED, Article 3.2

EN 300328 V2.2.2:2019

Rohs Directive 2011/65/EU

EN IEC 63000:2018,IEC 63000:2016

All modifications to this declaration will be confirmed by Ginlong, otherwise this declaration will no longer be valid. The product defined here-in was manufactured under the condition of the EU directive and standards. Product responsibility is within the manufacturer's guarantee and this declaration of conformity is issued under the responsibility of the manufacturer.

Manufacturer Stamp

Date and place of issue

Ningbo, 11.Oct.2023

Jiaqi Cao

Director of test center

锦浪科技股份有限公司, GINLONG TECHNOLOGIES CO.,LTD.





No. ESY 086470 0225 Rev. 00

Holder of Certificate: Ginlong Technologies Co., Ltd.

No.57 Jintong Road

Binhai Industrial Park, Xiangshan 315712 Ningbo, Zhejiang PEOPLE'S REPUBLIC OF CHINA

Product: Converter

Hybrid Inverter

Model(s): S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS,

S6-EH1P4.6K-L-PLUS, S6-EH1P5K-L-PLUS, S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS

Parameters: See next pages.

Applicable EN 50549-1:2019 EN 50549-10:2022

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 7040924037115-00

Date, 2024-09-30

(Zhengdong Ma)

MMO





Models	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS				
PV-Input:							
Max. input voltage		DC 500 V					
Mppt voltage range		DC 90 V,, 435 V					
Max. input current	AC 16/16 A	AC 16/16 A					
Isc PV (absolute maximum)	AC 20/20 A	AC 20/20 A	AC 20/20 A				
Battery Input / Output:							
Battery Type	Li-ion/Lead-acid						
Battery Voltage range		DC 40,, 60 V					
Max. Charge / discharge current	DC 70 A/ 70 A	DC 80 A/ 80 A	DC 105 A/ 105 A				
AC-Output (Grid side):							
Rated output voltage		1/N/PE AC 230 V					
Rated output frequency		50 Hz					
Max. /Rated apparent output power	3000 VA 3600 VA 4600 VA						
Max. /Rated output current	AC 13.1 A	AC 15.7 A	AC 20 A				
Power factor range	-0.8,, 1,, +0.8						

Models	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS	
PV-Input:				
Max. input voltage		DC 500 V		
Mppt voltage range		DC 90 V,, 435 V		
Max. input current	AC 16/16 A	AC 16/16 A	AC 32/32 A	
lsc PV (absolute maximum)	AC 20/20 A	AC 20/20 A	AC 40/40 A	
Battery Input / Output:				
Battery Type	Li-ion/Lead-acid			
Battery Voltage range	DC 40,, 60 V			
Max. Charge / discharge current	DC 112 A/ 112 A DC 135 A/ 135 A DC 190 A/ 19			
AC-Output (Grid side):				
Rated output voltage	1/N/PE AC 230 V			
Rated output frequency	50 Hz			
Max. /Rated apparent output power	5000 VA	6000 VA	8000 VA	
Max. /Rated output current	AC 21.8 A	AC 26.1 A	AC 34.8 A	
Power factor range	-0.8,, 1,, +0.8			





No. ESY 086470 0225 Rev. 00

Evaluated protection function and operational capabilities

Clause(s) / subclause(s) of EN 50549-1:2019	Applicable clause(s) / subclause (s) of this document	Remarks, optional modes and constraints	Verdict	
4.4.2 Operating frequency range	5.2.1 Frequency operating range		Pass	
	5.2.1 Frequency operating range		Pass	
	5.2.2 Voltage operating range		Pass	
4.5.2 Rate of change of	5.3.1 Immunity to disturbances – Rated of change of frequency (ROCOF)		Pass	
4.5.3.2 Generating plant with non-synchronous generating technology	5.3.3 Immunity to disturbances - Fault ride through, over-voltage (OVRT) and under-voltage (UVRT)		Pass	
4.5.4 Over-voltage ride through (OVRT)	5.3.3 Immunity to disturbances - Fault ride through, over-voltage (OVRT) and under-voltage (UVRT)		Pass	
4.6.1 Power response to overfrequency	5.4 Active response to frequency deviation		Pass	
4.6.2 Power response to underfrequency	5.4 Active response to frequency deviation		Pass	
4.7.2.2 Voltage support by reactive power, Capabilities	5.5.1 Power capabilities assessment		Pass	
		Q setp. Q(U) Cos φ setp. Cos φ (P)	Pass	
4.7.2.3.2 Set point control modes	5.5.2.3 Verification procedure for set point control	Q setp. Cos φ setp.	Pass	
4.7.2.3.3 Voltage related control modes	5.5.2.5 Verification procedure for power related control modes for reactive power	Q(U)	Pass	
4.7.2.3.4 Power related control mode	5.5.2.5 Verification procedure for power related control modes for reactive power	Cos φ (P)	Pass	
4.7.3 Voltage related active power reduction	5.6 Voltage related active power reduction - P(U)	P(U)	Pass	
4.7.4.2.2 Zero current mode for converter connected generating technology	5.3.3 Immunity to disturbances - Fault ride through, over-voltage (OVRT) and under-voltage (UVRT)		Pass	
4.9.3 Requirements on voltage and frequency protection	5.8.3 Verification procedure for generating plants to be connected to a LV distribution network with Interface protection as internal device		Pass	
4.9.4 Means to detect island situation	5.8.6 Islanding detection	Active methods tested with a resonant circuit	Pass	





		according to EN 62116	
4.10.2 Automatic reconnection after tripping	5.9.3 Automatic reconnection after tripping		Pass
4.10.3 Starting to generate electrical power	5.9.4 Starting to generate electrical power		Pass
4.11.1 Ceasing active power	5.10 Active power reduction on set point		Pass
4.11.2 Reduction of active power on set point	5.10 Active power reduction on set point		Pass
4.12 Remote information exchange	5.11 Remote information exchange	Standardized communication protocol not provided by manufacturer	N/A
_	5.12 Requirements regarding single fault tolerance of interface protection system and interface switch		Pass





No. ESY 086470 0225 Rev. 00

Evaluated parameter and parameter range

Specific technical requirement codes)	nt (e.g. grid		EN 50549-1:2019	
Clause(s) / subclause(s) of EN 50549-1:2019	Parameter	Remarks/ additional information	Configurable value range	Default value
4.4.2 Operating frequency	47.0 – 47.5 Hz		0 – 20 s	Unlimited with
range	Duration			protection setting only
	47.5 – 48.5 Hz		30 – 90 min	Unlimited with
	Duration			protection setting only
	48.5 – 49.0 Hz		30 – 90 min	Unlimited
	Duration			
	49.0 – 51.0 Hz Duration		not configurable	Unlimited
	51.0 – 51.5 Hz Duration		30 – 90 min	Unlimited with protection setting only
	51. 5 – 52 Hz		0 – 15 min	Unlimited with
	Duration		0 10 111111	protection setting only
4.4.3 Minimal requirement for	Reduction		not configurable	No reduction
active power delivery at	threshold		not comigarable	110 TOUGOLOTT
underfrequency	Maximum reduction rate	_	not configurable	N/A
4.4.4 Continuous operating	Upper limit		not configurable	110% Un
voltage range	Lower limit		not configurable	85% Un
4.5.2 Rate of change of frequency (ROCOF) immunity	ROCOF withstand capability (defined with a sliding measurement window of 500 ms)		not configurable	2 Hz/s
4.5.3.2 Under-voltage ride through (UVRT) Generating	Maximum power resumption time		not configurable	1 s
plant with non-synchronous generating technology	Voltage-Time- Diagram		See figure 6 default requirement curve of EN 50549-1:2019	0.15 0.2
4.5.4 Over-voltage ride through (OVRT)	Voltage-Time- Diagram		not configurable See figure 8 of EN 50549- 1:2019	1.5 0.85 Time [s] U [p.u.] 0.0 1.25 0.1 1.25 0.1 1.20 5.0 1.20
				5.0 1.15 60 1.15 60 1.10
4.6.1 Power response to	Threshold		50.2 Hz – 52 Hz	50.2 Hz
overfrequency	frequency f ₁		0.0/ 40.0/	E 0/
	Droop		2 % – 12 %	5 %
	Power reference		PM Pmax	P _{max} for ESS
	Intentional delay		0 – 2 s 50.0 Hz – f ₁	0s
	Deactivation threshold fstop	-	0U.U HZ — T1	deactivated
	Deactivation time	_	0 – 600 s	_
	t _{stop} Acceptance of		yes no	No
	proceptative of	Г	ly es 110	Į i v O





	staged			
	disconnection			
4.6.2 Power response to	Threshold		49.8 Hz – 46 Hz	49.8 Hz
	frequency f ₁			
	Droop		2 – 12 %	5 %
	Power reference		P _M P _{max}	P _{max}
	Intentional delay		0 – 2 s	0 s
4.7.2.2 Voltage support by	Active factor /		0.8 – 1 / 60 %P _D – 0	0.9 – 1 / 48.4 % P _D –
reactive power - Capabilities	Reactive power		_	0
	(%Pd) range			
	overexcited			
	Active factor /		0.8 – 1 / 60 %P _D – 0	0.9 – 1 / 48.4 % P _D –
	Reactive power			0
	(%Pd) range			
	underexcited			
4.7.2.3 Voltage support by	Enabled control		Q setp.	Q setp.
reactive power - Control modes	mode		Q(U)	
			Cos φ setp.	
470001	0 1 1 1		Cos φ (P)	
4.7.2.3.2 Voltage support by	Q setpoint and	 -	0 – 60 % P _D	0
reactive power - Setpoint control modes	excitation		1 00	1
control modes	cos φ setpoint and		1 – 0.8	1
4 7 0 0 0 Valtage average by	excitation			ludiosta dofolt
4.7.2.3.3 Voltage support by reactive power - Voltage	Characteristic		<u> </u> -	Indicate default characteristic
related control modes	curve – Q (U) Point a		50%Un – 100%Un	93 %Un
leiated control modes	Point b		50%Un – 100%Un	94 %Un
	Point c		100%Un – 120%Un	106%Un
	Point d		100%Un – 120%Un	108 %Un
	Min. reactive	 	0 – 60 %Pd	48.4 %Pd
	power	<u> </u>		40.4 /0FU
	Max. reactive		(Q _{max under}) 0 – 60 %Pd	48.4 %Pd
	power	Γ	$(Q_{\text{max over}})$	40.4 /01 u
	Time constant		3 s – 60 s	3.0 s
	Min cos φ	_	0.0 – 1	0.4
	Lock in power		0 % – 20 %	20%
	Lock out power		0 % – 20 %	5%
4.7.2.3.4 Voltage support by	Characteristic			Indicate default
reactive power - Power related	curve –			characteristic
control mode	Cos φ (P)			
	Point a		0 – 100%Pn/	15%Pn/
			PF:-0.8,,+0.8	PF=0.8
	Point b		0 – 100%Pn/	20%Pn/
			PF:-0.8,,+0.8	PF=1
	Point c		0 – 100%Pn/	80%Pn/
			PF:-0.8,,+0.8	PF=1
	Point d		0 – 100%Pn/	90%Pn/
			PF:-0.8,,+0.8	PF=-0.9
	Cos φ		0.8 – 1	0.8
	Time constant		3 s – 60 s	3.33 s
	Lock in voltage		105 %Un	deactivated
	Lock out voltage		100 %Un	deactivated
4.7.3 Voltage related active	Characteristic		 	Indicate default
power reduction	curve - P (U)			characteristic
	Point a		0 – 100%Pn/	100%Pn/
			U:0 V,,264.5 V	U=207 V
	Point b	 	0 – 100%Pn/	100%Pn/
			U:0 V,,264.5 V	U=230 V
	Point c	 	0 – 100%Pn/	100%Pn/
			U:0 V,,264.5 V	U=253 V



	Point d		0 – 100%Pn/	5%Pn/
	Ti		U:0 V,,264.5 V	U=257.6 V
17.1007	Time constant		3 s – 60 s	3.33 s
.7.4.2.2 Zero current mode for			enable disable	disabled
converter connected	Static voltage		100 %Un- 120 %Un	120 %Un
generating technology	range overvoltage			
	Static voltage		20 %Un – 100 %Un	50 %Un
	range			
	undervoltage			
- 1	Threshold for	 	16 A – 250 kVA	Not specified, inverter
	protection as			integrated as default
	dedicated device			
	[in A or kW. kVA]			
	Undervoltage		0.2 Un – 1 Un	0.85Un
	threshold stage 1			
	Undervoltage	 	0.1 s – 100 s	100 s
	operate time stage			
	1			
	Undervoltage		0.2 U _n – 1 U _n	0.5Un
	threshold stage 2			
	Undervoltage		0.1 s – 5 s	5 s
	operate time stage			
	2			
	Overvoltage		1.0 U _n – 1.2 U _n	1.2Un
	threshold stage 1			
	Overvoltage		0.1 s - 100 s	100 s
	operate time stage			
	1			
	Overvoltage		1.0 U _n – 1.3 U _n	1.3Un
	threshold stage 2			
	Overvoltage		0.1 s – 5 s	5 s
	operate time stage			
	2			
	Overvoltage		1.0 Un – 1.15 Un	1.1Un
	threshold 10 min			
	mean protection			
	Underfrequency		47.0 Hz- 50.0 Hz	47.5 Hz
	threshold stage 1			
	Underfrequency		0.1 s – 100 s	100 s
	operate time stage		0.1 0 100 0	
	1			
	Underfrequency	<u></u>	47.0 Hz – 50.0 Hz	47 Hz
	threshold stage 2		17.0112 00.0112	' ' ' ' '
	Underfrequency		0.1 s – 5 s	5 s
	operate time stage		0.13-33	0 3
	2			
	2 Overfrequency		50.0 Hz – 52.0 Hz	51.5Hz
	threshold stage 1	 	50.0 FIZ = 52.0 FIZ	01.0112
	Overfrequency		0.1 s - 100 s	100 s
	operate time stage	 	0.15 - 1005	100 5
	operate time stage			
	Overfrequency		50.0 Hz – 52.0 Hz	52Hz
		 	50.0 Fiz - 52.0 Fiz	JZITZ
	threshold stage 2		0.1 0 5 -	F 0
	Overfrequency		0.1 s – 5 s	5 s
	operate time stage			
1004			47.011 -50.011	40.511
.10.2 Automatic reconnection			47.0 Hz – 50.0 Hz	49.5 Hz
fter tripping	Upper frequency	<u> </u>	50.0 Hz – 52.0 Hz	50.2 Hz
	Lower voltage		50 %Un – 100 %Un	85 %Un
			100 %Un – 120 %Un	110 %Un
	Upper voltage		100 700n — 120 700n	110 %On T



	Observation time		10 s – 600 s	60 s
	Active power increase gradient		5% – 3000%/min	10 %/min
4.10.3 Starting to generate	Lower frequency		47.0 Hz – 50.0 Hz	49.5 Hz
electrical power	Upper frequency		50.0 Hz – 52.0 Hz	50.1 Hz
	Lower voltage		50 %Un – 100 %Un	85 %Un
	Upper voltage		100 %Un – 120 %Un	110 %Un
	Observation time		10 s – 600 s	60 s
	Active power increase gradient		5% – 3000 %/min	disabled
4.11.1 Ceasing active power	Activation option		Can be achieved by Modbus communication protocol, APP or Solis cloud, acceptance should be made by the DSO and responsible party	
4.11.2 Reduction of active power on set point	Activation option		Can be achieved by Modbus communication protocol, APP or Solis cloud, acceptance should be made by the DSO and responsible party	
4.12 Remote information exchange	Available communication standards		Standardized communic provided by manufacture	





Attestation of Conformity

No. N8A 086470 0158 Rev. 01

Holder of Attestation: Ginlong Technologies Co., Ltd.

No.57 Jintong Road

Binhai Industrial Park, Xiangshan 315712 Ningbo, Zhejiang PEOPLE'S REPUBLIC OF CHINA

Product: Converter

Hybrid Inverter

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 50409230013198-01

Date, 2024-06-20

(Zhengdong Ma)



This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



Attestation of Conformity

No. N8A 086470 0158 Rev. 01

Model(s):

S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS, S6-EH1P4.6K-L-PLUS, S6-EH1P5K-L-PLUS, S6-EH1P6K-L-PLUS

Parameters:

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P5K-L-PLUS	
PV input		•	•	
Max. input voltage	500Vd.c.	500Vd.c.	500Vd.c.	
MPPT voltage range	90,, 435Vd.c.	90,, 435Vd.c.	90,, 435Vd.c.	
Max. input current	2x16Ad.c.	2x16Ad.c.	2x16Ad.c.	
lsc PV (absolute maximum)	2x20Ad.c.	2x20Ad.c.	2x20Ad.c.	
Battery input	•	•	•	
Battery type		Li-ion/Lead-acid		
Battery voltage range	40,, 60Vd.c.	40,, 60Vd.c.	40,, 60Vd.c.	
Max. charge current	70Ad.c.	80Ad.c.	112Ad.c.	
Max. discharge current	70Ad.c.	80Ad.c.	112Ad.c.	
AC output (Back-up)		•		
Max./rated output power	3000W	3600W	5000W	
Nominal output voltage	1/N/PE 220Va.c., 1/N/PE 230Va.c.			
Nominal frequency	50/60 Hz			
Max./rated output current	13.7Aa.c.@ 220Va.c. 13.1Aa.c.@ 230Va.c.	16.4Aa.c.@ 220Va.c. 15.7Aa.c.@ 230Va.c.	22.8Aa.c.@ 220Va.c. 21.8Aa.c.@ 230Va.c.	
AC output (Grid side)				
Max./rated apparent output power	3000VA	3600VA	5000VA	
Nominal output voltage		1/N/PE 220Va.c., 1/N/PE 230Va.c.		
Nominal frequency		50/60 Hz		
Max./rated output current	13.7Aa.c.@ 220Va.c. 13.1Aa.c.@ 230Va.c.	16.4Aa.c.@ 220Va.c. 15.7Aa.c.@ 230Va.c.	22.8Aa.c.@ 220Va.c. 21.8Aa.c.@ 230Va.c.	
AC input				
Nominal voltage		1/N/PE 220Va.c., 1/N/PE 230Va.c.		
Max./rated continuous current	21Aa.c.@ 220Va.c. 20Aa.c.@ 230Va.c.	25Aa.c.@ 220Va.c. 24Aa.c.@ 230Va.c.	32Aa.c.@ 220Va.c. 31Aa.c.@ 230Va.c.	
Nominal frequency		50/60 Hz		
General				
Power factor range		-0.8,, 1,, +0.8		
Protective class		l		
Ingress protection		IP 66		
Operating temperature Range		-40°C,, +60°C		
Max. operation altitude	3000m			



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Attestation of Conformity

No. N8A 086470 0158 Rev. 01

Model	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS	S6-EH1P4.6K-L-PLUS		
PV input					
Max. input voltage	500Vd.c.	500Vd.c.	500Vd.c.		
MPPT voltage range	90,, 435Vd.c.	90,, 435Vd.c.	90,, 435Vd.c.		
Max. input current	2x16Ad.c.	2x32Ad.c.	2x16Ad.c.		
lsc PV (absolute maximum)	2x20Ad.c.	2x40Ad.c.	2x20Ad.c.		
Battery input	•	•	•		
Battery type		Li-ion/Lead-acid			
Battery voltage range	40,, 60Vd.c.	40,, 60Vd.c.	40,, 60Vd.c.		
Max. charge current	135Ad.c.	190Ad.c.	105Ad.c.		
Max. discharge current	135Ad.c.	190Ad.c.	105Ad.c.		
AC output (Back-up)	1		1		
Max./rated output power	6000W	8000W	4600W		
Nominal output voltage	1/N/PE 220Va.c., 1/N/PE 230Va.c.				
Nominal frequency	50/60 Hz				
Max./rated output current	27.3Aa.c.@ 220Va.c. 36.4Aa.c.@ 220Va.c. 26.1Aa.c.@ 230Va.c. 34.8Aa.c.@ 230Va.c.		20.9Aa.c.@ 220Va.c. 20.0Aa.c.@ 230Va.c.		
AC output (Grid side)					
Max./rated apparent output power	6000VA	8000VA	4600VA		
Nominal output voltage	1/N/PE 220Va.c., 1/N/PE 230Va.c.				
Nominal frequency		50/60 Hz			
Max./rated output current			20.9Aa.c.@ 220Va.c. 20.0Aa.c.@ 230Va.c.		
AC input					
Nominal voltage		1/N/PE 220Va.c., 1/N/PE 230Va.c.			
Max./rated continuous current			29Aa.c.@ 220Va.c. 28Aa.c.@ 230Va.c.		
Nominal frequency		50/60 Hz			
General					
Power factor range		-0.8,, 1,, +0.8			
Protective class		1			
Ingress protection		IP66			
Operating temperature Range	-40°C,, +60°C				
Max. operation altitude		3000m			

Tested according to:

EN 62109-1:2010 EN 62109-2:2011

Page 3 of 3

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