

SKYWORTH PV-Tech

2021



CARBON-FREE FUTURE



Designing Engineering Procurement Construction and Operation
DEPCO

Shenzhen Skyworth Photovoltaic Technology Co.,Ltd

Room 1317, Building 2#B, Skyworth Innovation Valley, TangTou Road No.1, ShiYan ,Bao'An, ShenZhen, China

www.skyworthpv.com www.skyworth-pv.com

(Tel) : 010-86226096 (Email): hwyx@skyworth.com



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Shenzhen Skyworth Photovoltaic Technology Co., Ltd.

SUBSIDIARY OF SKYWORTH GROUP

Skyworth Group founded in 1988, mainly engaged in multimedia, smart appliances, smart system and modern service. The Group has two listed companies: Skyworth Group (00751.HK), Skyworth Digital (00810.SZ).

Shenzhen Skyworth Photovoltaic Technology Co.,Ltd. is a new energy IOT company integrating development, design, construction, operation, management and consultant services. We are committed to building a smart clean energy asset construction and management platform. We always insist on offering innovative residential solar power solution, creating smart green energy system for your home, and strive to make positive contributions to reach goal of global zero carbon.





iStar-F
Hybrid Inverter (US)

Fashion appearance, light weight, smart operation.

Natural cooling, low noise.

Compatible with lead-acid or lithium-ion batteries or other battery.

Compatible anti counter flow function.

Battery reverse connect protection.

Intelligent energy management system for home.



Villa



Communication
Base Station



Nomadic Area



Farm



Household



Field Power Supply

Specification

Specification				
PV input				
Model	SP--R5KLNA	SP--R6KLNA	SP--R7K6LNA	SP--R8KLNA
PV input Power	7.5kw	9kw	12kw	12kw
MPPT number	4			
PV voltage range	350V/85V-500V			
MPPT voltage range	120-500V			
Max PV input voltage	500V			
AC output (on-grid)				
Rated AC output	5KVA	6KVA	7.6KVA	8KVA
AC output voltage	120/240Vac(split phase),208Vac(2/3 phase),230Vac(single phase)			
AC output frequency	50/60Hz			
Max.output current	24A	28.8A	36.5A	38.3A
AC output frequency	yes			
Backup AC output				
Rated backup output power	5KVA	6KVA	7.6KVA	8KVA
Max backup output power	6.25KVA 60S 7.5KVA 1S	7.5KVA 60S 9KVA 1S	9.5 KVA 60S 11.4 KVA 1S	10KVA 60S 12KVA 1S
Backup AC output voltage	120/240Vac(split phase),208Vac(2/3 phase),230Vac(single phase)			
AC Frequency	50/60Hz			
Output THDI	<2%			
Battery				
Max charge/discharge current	120A/120A	135A/135A	190A/190A	190A/190A
Battery voltage range	48V			
Battery type	lead-acid			
Efficiency				
Max efficiency	≥ 98.2%			
ECE efficiency	≥ 97.2%			
Protection				
Complete protection	Ground protection; AFCI ;islanding ;DC disconnect detection;BRP;insulation testing;GFCI;DC&AC anti-thunder;OVP/UVP;AC&DC OCP;AC SCP;OHP			
General Data				
IP Grade	IP65			
Temperature range	-25 ~ +60°C			
Attitude	0~4000M (Derating when over 2000m)			
EMC	ICE62109-1,IEC62109-2			
Safety	EN61000-6-1,EN61000-6-3,FCC 15 class B			
Communication	Modbus, RS485, WIFI,4G25.4mm			
Weight	32KG			
Dimension	43x 71x 21 CM			
Warranty	5 years			

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iStar-F
Hybrid Inverter (EU)

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Villa



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Base Station



Nomadic Area



Farm



Household



Field Power Supply

Specification						
PV input						
Model	SP--R3KL1	SP--R3K6L1	SP--R4KL1	SP--R4K6L1	SP--R5KL1	SP--R6KL1
Max.Input Power	4600W		6000W		7000W	
Start-up voltage	125V					
Max.PV voltage	550V					
MPPT range/nominal	125V-500V/360V					
Max.input current	14A/14A					
MPPT trackers/strings	2/1					
AC output						
Rated power w/va	3000VA	3600VA	4000VA	4600VA	5000VA	6000VA
Max.output current	13A	16A	17.4A	20A	21.7A	26A
Nominal voltage/range	230V/180Vac~280Vac					
Frequency	50/60Hz					
THDI	<3%					
AC output topology	L+N+PE					
Battery						
Battery voltage range	40~58V					
Max.charging voltage	58V					
Charge/discharge current	95A/62.2A	95A/75A	95A/83.3A	95A/95.8A	95A/104.2A	95A/110A
Battery type	Lithium/Lead-acid					
Communication interface	CAN/RS485					
EPS output						
Rated power w/va	3000VA	3600VA	4000VA	4600VA	5000VA	6000VA
Rated voltage	230Vac					
Rated current	13A	16A	17.4A	20A	21.7A	26A
Rated frequency	50/60Hz					
Automatic switchover time	<20ms					
General data						
Protection class	IP65					
Operation temperature	-25 C ~+60 C					
Relative humidity	0~95%(NON-condensing)					
Battery charge/discharge	95.5%/95%					
DC max.efficiency	97.6%					
Euro efficiency	97%					
MPPT efficiency	99.9%					
Certificate	CE/TUV/SAA					
Dimension	55x20x52.5 CM					
Weight	26KG					
Self-consumption	<3W					
Warranty	5 years					

