



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

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
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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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