SOLAX
POWER

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*Can be modified without notice.(V6)

A1-HYBRID / A1-FIT

Nominal Capacity:
6kW; 7kW; 7.6kW and 8.6kW

Features

1. Natural Cooling and low maintenance
2. Multiple protection: RCD, isolation, over voltage, over temperature, earth protection, short-circuit protection, etc
3. 2, 3 or 4 MPPT per inverter
4. Compatible with Triple Power Lithium-ion batteries
5. Max Efficiency up to 98.24%

	A1-Hybrid				A1-Fit			
Module	**A1-HYBRID-6.0**	**A1-HYBRID-7.0**	**A1-HYBRID-7.6**	**A1-HYBRID-8.6**	**A1-FIT-6.0**	**A1-FIT-7.0**	**A1-FIT-7.6**	**A1-FIT-8.6**
PV								
Max.PV input power [W]	7200	8400	9120	10320	—	—	—	—
Nominal DC voltage [Vdc]	360				—	—	—	—
Max.DC voltage [Vdc]	600				—	—	—	—
System startup voltage [Vdc]	150				—	—	—	—
System shutdown voltage [Vdc]	80				—	—	—	—
Operating voltage range [Vdc]	105–500				—	—	—	—
Max.PV input current [A]	10/ per MPPT				—	—	—	—
Max.input short circuit cuttent [A]	12.5				—	—	—	—
No of MPPT / Strings per MPPT	2/1	3/1	3/1	4/1	—	—	—	—
Max.backfeed current	39A rms / 2ms				—	—	—	—
GRID-OUTPUT								
Nominal AC output power [VA]	6000	7000	7600	8600	6000	7000	7600	8600
Max. AC output power [VA]	6600	7700	8360	9460	6600	7700	8360	9460
Nominal AC output voltage (Range) [Vac]	120 / 240 split phase (211 - 264)					120 / 240 split phase (211 - 264)		
Max.AC output current [A]	28	32	35	41	28	32	35	41
Operating AC frequency range [Hz]	59.3 - 60.5					59.3 - 60.5		
Output power factor rating	Default>0.99 (Adjustable +/- 0.8)					Default>0.99 (Adjustable +/- 0.8)		
Total harmonic distortion [%]	<3					<3		
Max. AC output fault current and duration	765A peak /5ms, 46A rms/cycle					765A peak /5ms, 46A rms/cycle		
GRID-INTPUT								
Max.AC input power [VA]	6600	7700	8360	9460	6600	7700	8360	9460
Nominal AC input voltage [Vac]	120 / 240 split phase					120 / 240 split phase		
Nominal AC input frequency [Hz]	60					60		
Max.AC input current [A]	28	32	35	41	28	32	35	41
BACKUP LOAD OUTPUT (with auto-transformer)								
Max.continous AC output power [VA]	6000	7000	7600	8600	6000	7000	7600	8600
Nominal AC output voltage (Range) [Vac]	120 / 240 split phase （211 Vac - 264 Vac ）					120 / 240 Vac split phase (211 Vac - 264 Vac)		
Max.continous AC output current [A]	25	29	32	36	25	29	32	36
Nominal AC output frequency [Hz]	60					60		
Max. AC output fault current and duration	200A peak /10ms, 34A rms/cycle					200A peak /10ms, 34A rms/cycle		
BATTERY								
Battery type	Li-ion					Li-ion		
Nominal DC voltage [Vdc]	360					360		
DC operating voltage range [Vdc]	84-432					84-432		
Max.DC charge and discharge current [A]	25					25		
Max. charge power (grid input only) [W]	5600	6500	7100	8000	5600	6500	7100	8000
Max. charge power (pv input only) [W]	6000	7000	7600	8600	6000	7000	7600	8600
Max. discharge power [W]	7100	8300	9000	10200	7100	8300	9000	10200
BMS communication interface	CAN2.0					CAN2.0		
EFFICIENCY								
Max PV-AC [%]	96.70					—		
Max Battery-AC [%]	96.46					96.46		
CEC efficiency (PV-AC) [%]	—	—	95.67	95.75	—	—	95.50	95.63
PROTECTION								
DC disconnect device	Yes					—		
Over voltage protection type	Varistor					Varistor		
PV array ground fault detection	Pre-start RISO					—		
Ground fault monitoring	Yes					—		
Grid monitoring	Yes					Yes		
AC short circuit protection	Yes					Yes		
ALL-pole sensitive residual current monitoring unit(RCMU)	Yes					—		
Arc fault circuit interrupter(AFCI)	Yes					—		
Protection class/over voltage category	I/IV					I/IV		
GENERAL								
Dimension(L*W*D)	36*22*109in (913*560*276mm)					36*22*109in (913*560*276mm)		
Package dimension(L*W*D)	40*26.3*15.6in (1,016*667*397mm)					40*26.3*15.6in (1,016*667*397mm)		
Weight	130lbs (59kg)					117lbs (53kg)		
Package weight	139lbs (63kg)					125lbs (57kg)		
Enclosure rating	Type 4X					Type 4X		
Operation temperature range	-4°F to 140°F (-20°C to 60°C), no derating below 113°F (45°C)					-4°F to 140°F (-20°C to 60°C), no derating below 113°F (45°C)		
Storage temperature range	-22°F to 167°F (-30°C to 75°C)					-22°F to 167°F (-30°C to 75°C)		
Relative humidity [%]	0-100 RH Condensing					0-100 RH Condensing		
Typical noise emission [dB]	<35					<35		
Max. operation altitude without derating	6,560ft (2,000m)					6,560ft (2,000m)		
Self-consumption in standby mode [W]	<20					<20		
Topology	Transformerless					Transformerless		
Cooling concept	Natural convection					Natural convection		
Safety and EMC	UL1741,UL1741SA,UL62109,IEEE1547,IEEE1547.1,RULE21;CSA-C22.2N.107.1-01,UL1998,UL1699B,FCC part15 CLASS B					UL1741,UL1741SA,UL62109,IEEE1547,IEEE1547.1,RULE21;CSA-C22.2N.107.1-01,UL1998,FCC part15 CLASS B		
HMI								
Display	Backlight LCD, 3 LEDs					Backlight LCD, 3 LEDs		
Touch button	4					4		
Communication interface	LAN/WIFI(optional)/4G(optional)					LAN/WIFI(optional)/4G(optional)		
Communication protocol	Modbus/Sunspec. RTU					Modbus/Sunspec. RTU		
Firmare update	Local USB/Remote web					Local USB/Remote web		
Meter	RS485					RS485		
Warranty [years]	5 / 10 (optional)					5 / 10 (optional)		