

A1-Grid



Module	A1-GRID-6.0	A1-GRID-7.0	A1-GRID-7.6	A1-GRID-8.6
PV				
Max.recommended PV power [W]	7200	8400	9120	10320
Max DC power per MPPT [W]			3600	
Nominal DC voltage [V]			360	
Maximum DC voltage [V]			600	
System startup voltage [V]			150	
Shutdown voltage typical [V]			80	
Operating voltage range [V]			105-500	
Full rating voltage range [V]	360-500	280-500	304-500	258-500
Max. operating current per mppt [A]			10	
Max.short circuit current [A]			12.5	
No of MPPT / Inputs per mppt	2/1	3/1	3/1	4/1
GRID				
Nominal output capacity [VA]	6000	7000	7600	8600
Maximum continuous output capacity [VA]	6600	7700	8360	8600(208Vac) 9460(240Vac)
AC voltage range		208(183-228) 240(211-264)		
Nominal AC current @ 208 Vac [A]	29	34	37	41.5
Maximum AC current @208 Vac [A]	32	37	40	41.5
Nominal AC current @1240 Vac [A]	25	29	32	36
Maximum AC current @240 Vac [A]	28	32	35	41
Nominal Frequency/Range [Hz]		60 /-3+3		
Power factor		> 0.99 adj+/-0.8		
Total harmonic distortion [%]		<3		
AC LOAD (Grid tied)				
Max. continuous output capacity [VA]		—		
Nominal AC voltage [Vac]		—		
AC voltage range line to neutral @208Y/120 Vac system [Vac]		—		
AC voltage range line to neutral @120 / 240 Vac split phase system [Vac]		—		
Max. continuous output current @208Y/120 Vac system [A]		—		
Max. continuous output current @120 / 240 Vac split phase system [A]		—		
Nominal Frequency/Range [Hz]		—		
AC LOAD (Off grid without generator)				
Max. continuous output capacity [VA]		—		
AC voltage line to neutral [Vac]		—		
Max. continuous output current [A]		—		
Waveform		—		
Power consumption(Idle)—Inverter mode, no load [W]		—		
Nominal frequency/Range [Hz]		—		
AC LOAD (Off grid with generator)				
Maximum continuous output capacity [VA]		—		
AC voltage line to neutral(range) [Vac]		—		
Maximum continuous output current [A]		—		
Nominal frequency [Hz]		—		
Frequency range [Hz]		—		
Battery				
Type		—		
Normal DC Voltage Range [Vdc]		—		
DC Voltage Range [Vdc]		—		
DC charge and discharge current (max) [A]		—		
Maximum charge Power(grid input only) [W]		—		
Maximum discharge Power [W]		—		
BMS Communication interface		—		
Efficiency				
Max Battery-AC [%]		98.50		
CEC efficiency [%]		97.00		
Protection				
DC disconnect device		Yes		
Over voltage protection type		Varistor		
PV array ground fault detection		Pre-start RISO		
Ground fault monitoring		Yes		
Grid monitoring		Yes		
AC short circuit protection		Yes		
ALL-pole sensitive residual current monitoring unit(RCMU)		Yes		
Arc fault circuit interrupter(AFCI)		Yes		
Protection class/over voltage category		I/IV		
General data				
Dimension(L*W*D) [mm]		913*560*276		
Package dimension(L*W*D) [mm]		1016*667*397		
Weight / Package weight [kg]		59 / 63		
Enclosure rating		Type 4X		
Operation temperature range [OC]		-20~+60, no derating below 45		
Storage temperature range [OC]		-30~+75		
Relative humidity [%]		0-100 RH Condensing		
Noise [dB]		<35		
Max. operation altitude without derating [m]		2000		
Internal power consumption [W]		<20		
Topology		Transformerless		
Cooling concept		Natural		
Safety and EMC		UL1741,UL1741SA,IEEEE1547,IEEEE1547.1,CSA-C22.2N.107.1-01,UL1998,UL1699B,FCC part15 CLASS B		
HMI				
Display		LCD		
LED		3		
Touch button		4		
Communication interface		RS485/LAN/WIFI(optional)/4G(optional)/RF(optional)		
Communication protocol		Modbus/Sunspec. RTU		
Firmware update		Local USB/Remote web		
Meter		RS485		
Warranty [year]		10		



A1-HYBRID / A1-FIT / A1-Grid Single Phase Four MPPT



Features

1. Natural Cooling, quiet and low maintenance
2. Max Efficiency up to 98.5%
3. Multiple protection: RCD, isolation, over voltage, over temperature, earth protection, short-circuit protection, etc
4. NEMA Enclosure rating: Type 4X
5. Max 10 units in parallel
6. Compatible with High-Voltage batteries
7. Transformer-less on EPS mode

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Note: 1-7 available for A1-Hybrid and A1-Fit, 1-4 available for A1-Grid

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.recommended PV power [W]	7200	8400	9120	10320	—	—	—	—
Max DC power per MPPT [W]			3600		—	—	—	—
Nominal DC voltage [V]			360		—	—	—	—
Maximum DC voltage [V]			600		—	—	—	—
System startup voltage [V]			150		—	—	—	—
Shutdown voltage typical [V]			80		—	—	—	—
Operating voltage range [V]			105-500		—	—	—	—
Full rating voltage range [V]	360-500	280-500	304-500	258-500	—	—	—	—
Max. operating current per mppt [A]			10		—	—	—	—
Max.short circuit current [A]			12.5		—	—	—	—
No of MPPT / Inputs per mppt	2/1	3/1	3/1	4/1	—	—	—	—
GRID								
Nominal output capacity [VA]	6000	7000	7600	8600	6000	7000	7600	8600
Maximum continuous output capacity [VA]	6600	7700	8360	8600(208Vac) 9460(240Vac)	6600	7700	8360	8600(208Vac) 9460(240Vac)
AC voltage range	208Y/120 Vac (183Y/105.5Vac - 228Y/131.5 Vac)		120 / 240 Vac split phase (105.5/211 Vac - 132/264 Vac)		208Y/120 Vac (183Y/105.5Vac - 228Y/131.5 Vac)		120 / 240 Vac split phase (105.5/211 Vac - 132/264 Vac)	
Nominal AC current @ 208Y/120 system [A]	29	34	37	41.5	29	34	37	41.5
Maximum continuous AC current @208Y/120 system [A]	32	37	40	41.5	32	37	40	41.5
Nominal AC current @120 / 240 system [A]	25	29	32	36	25	29	32	36
Maximum continuous AC current @120 / 240 system [A]	28	32	35	41	28	32	35	41
Nominal Frequency/Range [Hz]			60 /-3+3				60 /-3+3	
Power factor			> 0.99 adj+/-0.8				> 0.99 adj+/-0.8	
Total harmonic distortion [%]			<3				<3	
AC LOAD (Grid tied)								
Max. continuous output capacity [VA]	3000/6000	3500/7000	3800/7600	4300/8600	3000	3500	3800	4300
Nominal AC voltage [Vac]			120/240				120	
AC voltage range line to neutral @208Y/120 Vac system [Vac]			105.5-131.5/211-264				105.5-131.5	
AC voltage range line to neutral @120 / 240 Vac split phase system [Vac]			105.5-132/211-264				105.5-132	
Max. continuous output current @208Y/120 Vac system [A]	25	29	32	36	25	29	32	36
Max. continuous output current @120 / 240 Vac split phase system [A]	25	29	32	36	25	29	32	36
Nominal Frequency/Range [Hz]			60/-3.....+3				60/-3.....+3	
AC LOAD (Off grid without generator)								
Max. continuous output capacity [VA]	3000/6000	3500/7000	3800/7600	4300/8600	3000	3500	3800	4300
AC voltage line to neutral [Vac]			120±3/240±3				120±3%	
Max. continuous output current [A]	25	29	32	36	25	29	32	36
Waveform			True Sine Wave				True Sine Wave	
Power consumption(Idle)—Inverter mode, no load [W]			<100				<100	
Nominal frequency/Range [Hz]			60/-3.....+3				60/-3.....+3	
AC LOAD (Off grid with generator)								
Maximum continuous output capacity [VA]	3000/6000	3500/7000	3800/7600	4300/8600	3000	3500	3800	4300
AC voltage line to neutral(range) [Vac]			120(105.5-132) / 240(211-264)				120(105.5-132)	
Maximum continuous output current [A]	25	29	32	36	30	35	39	44
Nominal frequency [Hz]			60/-3.....+3				60/-3.....+3	
Frequency range [Hz]			44-70(allowable)				44-70(allowable)	
Generator								
Nominal input capacity [VA]	3000/6000	3500/7000	3800/7600	4300/8600	3000	3500	3800	4300
Max. continuous input capacity [VA]	3600/7200	4200/8400	4560/9120	5160/10320	3600	4200	4560	5160
AC voltage line to neutral(range) [Vac]			120(105.5-132) / 240(211-264)				120(105.5-132)	
Max. input current [A]	30	35	39	44	30	35	39	44
Nominal frequency [Hz]			60				60	
Frequency range [Hz]			44-70(allowable)				44-70(allowable)	
Battery								
Type			Lithium				Lithium	
Nominal DC Voltage Range [Vdc]			360				360	
DC Voltage Range [Vdc]			84-432				84-432	
DC charge and discharge current (max) [A]			25				25	
Maximum charge Power(grid input only) [W]	5600	6500	7100	8000	5600	6500	7100	8000
Maximum charge Power(pv input only) [W]	6000	7000	7600	8600				
Maximum discharge Power [W]	7100	8300	8600	8600	7100	8300	8600	8600
BMS Communication interface			CAN 2.0				CAN 2.0	
Efficiency								
Max PV-AC [%]			98.50				—	
Max PV-Battery [%]			98.50				—	
Max Battery-AC [%]			96.00				96.00	
CEC efficiency [%]			97.00				97.00	
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	
BAT FUSE			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 data								
Dimension(L*W*D) [mm]			913*560*276				913*560*276	
Package dimension(L*W*D) [mm]			1016*667*397				1016*667*397	
Weight / Package weight [kg]			59 / 63				59 / 63	
Enclosure rating			Type 4X				Type 4X	
Operation temperature range [OC]			-20~+60, no derating below 45				-20~+60, no derating below 45	
Storage temperature range [OC]			-30~+75				-30~+75	
Relative humidity [%]			0-100 RH Condensing				0-100 RH Condensing	
Noise [dB]			<35				<35	
Max. operation altitude without derating [m]			2000				2000	
Internal power consumption [W]			<20				<20	
Topology			Transformerless				Transformerless	
Cooling concept			Natural				Natural	
Safety and EMC	UL1741,UL1741SA,IEEE1547,IEEE1547.1,CSA-C22.2N.107.1-01,UL1998,UL1699B,FCC part15 CLASS B				UL1741,UL1741SA,IEEE1547,IEEE1547.1,CSA-C22.2N.107.1-01,UL1998,UL1699B,FCC part15 CLASS B			
HMI								
Display			LCD				LCD	
LED			3				3	
Touch button			4				4	
Communication interface			RS485/LAN/WIFI(optional)/4G(optional)/RF(optional)				RS485/LAN/WIFI(optional)/4G(optional)/RF(optional)	
Communication protocol			Modbus/Sunspec. RTU				Modbus/Sunspec. RTU	
Firmware update			Local USB/Remote web				Local USB/Remote web	
Meter			RS485				RS485	
Warranty [year]			10				10	