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# A1-ESS-G2



## A1-HYBRID-G2

- 200% PV oversize, 15.2kWdc
- 3 strings MPPT
- 150% max. MPPT power
- 16A max. input current
- 100% backup power with grid-tie
- Built-in RGM meter
- Up to 4 inverter parallel
- Peak efficiency(PV-GRID): 98%

## T-BAT-SYS-HV-(5.0)

- Long life & Safe LPF battery
- Up to 4 battery modules stacked, 20kWh
- No power or signal wire between modules
- Pre-wiring with inverter
- Floor or wall mounted



## MID

- 200A Grid Support, Whole home backup.
- 4 Hybrid Inverter Parallel, 30kW/80kWh
- 64A Generator Support
- Energy Management Meter Built-in
- Up to 4 disconnect priority, programmable disconnect heavy load by different SOC
- EV charge extendable

## A1-HYBRID-G2

### A1-Hybrid-3.8-G2

### A1-Hybrid-5.0-G2

### A1-Hybrid-6.0-G2

### A1-Hybrid-7.6-G2

	A1-Hybrid-3.8-G2	A1-Hybrid-5.0-G2	A1-Hybrid-6.0-G2	A1-Hybrid-7.6-G2
<b>INPUT PV</b>				
Max.recommended PV power [W]	7600	10000	10000	15200
Max.MPPT power [W]	5700	7500	9000	11400
Max.DC voltage [V]			550	
Normal DC operating voltage [V]			360	
Max. input current( input A/input B/input C) [A]	A:16/B:16	A:16/B:16	A:16/B:16	A:16/B:16/C:16
Max. short circuit current (input A/input B/input C) [A]	A:20/B:20	A:20/B:20	A:20/B:20	A:20/B:20/C:20
MPPT voltage range [V]			90-500	
MPPT voltage range [V](full load)	176 ~ 500	232 ~ 500	278 ~ 500	235 ~ 500
Start input voltage [V]			120	
No. of MPP trackers	2	2	2	3
Strings per MPP tracker	A:1/B:1	A:1/B:1	A:1/B:1	A:1/B:1/C:1
DC disconnection switch			YES	
AFCI			YES	
<b>INPUT/OUTPUT AC</b>				
Normal AC power [VA]	3816	5016	6000	7608
Max. apparent AC power [VA]	3816	5016	6000	7608
Rated grid voltage(AC voltage range) [V]			240	
Rated grid frequency [Hz]			60	
Normal AC current [A]	15.9	20.9	25	31.7
Max. AC current [A]	15.9	20.9	25	31.7
Maximum output fault current and duration [A/ ms]	17.5/20	23/20	27.5/20	34.9/20
Displacement power factor			0.8 leading ~ 0.8 lagging	
Total harmonic distortion(THD, rated power) [%]			<3	
Parallel operation			YES	
<b>INPUT/OUTPUT BAT</b>				
Battery type			Li-ion	
Input /output voltage range[V]			75-450	
Rated input/output voltage [V]			150	
Maximum input power[W]	4060	5336	6383	8094
Maximum output power[W]	3816	5016	6000	7600
Maximum Input/output current[A]	54	54	54	54
Reverse-polarity protection			YES	
Cycle efficiency charging to discharging (PCS only) [%]	92	92	92	92
<b>EFFICIENCY</b>				
CEC weighted efficiency (PV to grid) [%]			97.50	
Maximum inverter efficiency [%]			98.00	
<b>POWER CONSUMPTION</b>				
Internal consumption(night) [W]			<10	
<b>STANDARD</b>				
Safety			UL1741,UL1699B, CSA - C22.2 No. 107.1-01, Canadian AFCI according to T.I.L. M-07	
EMC			FCC part15 class B	
Certification			IEEE1547,IEEE 1547.1, Rule 21 Phase III,Rule14 (HI)	
RoHS			YES	
<b>ENVIRONMENT LIMIT</b>				
Protection class			NEMA 4X	
Operating temperature range [°F (°C)]			-13 ~ +140 (-25 ~ +60)	
De-rating start temperature [°F (°C)]			113 (45) or above	
Storage temperature Range [°F (°C)]			-13~ +167(-25 ~ +75)	
Humidity [%]			0 ~ 95 RH	
Altitude [ft (m)]			6562 (2000) MAX	
Noise emission(typical) [dBA]			< 30	
Over voltage category			IV(electric supply side), II(PV side)	
<b>GENERAL</b>				
Dimensions with safety switch (WxHxD) [in(mm)]			33.1*15.7*5.7(840*400*145)	
Weight with Safety switch [lb(KG)]			75(34)	
Cooling concept			Natural convection with internal fan	
Topology			Transformerless	
Communication			RS485,CAN, Wi-Fi(optional)/4G(optional)	
Revenue grade data, ANSIC12.20			Optional	
Warranty [Year]			10	

# T-BAT-SYS-HV-(5.0)

## T-BAT H 5.0

## T-BAT H 10.0

## T-BAT H 15.0

## T-BAT H 20.0

### MODEL

Battery type	100Ah Lithium(LFP)	100Ah Lithium(LFP)	100Ah Lithium(LFP)	100Ah Lithium(LFP)
Component	HV51100	MC60060+2*HV51100	MC60060+3*HV51100	MC60060+4*HV51100

### NOMINAL CHARACTER

Voltage [V]	51.2	102.4	153.6	204.8
Operating voltage range [V]	45~58	90~116	135~174	180~232
Battery module	2*1P8S=1 Module	Module*2	Module*3	Module*4
Rated capacity [Ah]			100	
Total energy [kWh] *	5.12	10.24	15.36	20.48
Usable energy[kWh]	4.6	9.2	13.8	18.4
Battery roundtrip efficiency [%] *			95	
Standard power[kW]	2.56	5.12	7.68	10.24
Max power[kW]	3.072	6.144	9.216	12.228
Recommend charge/discharge current [A]			50	
Maxcharge/discharge current [A]			60	
Cycle life [90% DOD]			6000 Cycles	
Expected life time [year]			10	

### ENVIRONMENT REQUIREMENT

Available charge/discharge temperature range [°C]	Discharge: -10 ~ 50 Charge: 0 ~ 50			
Storage temperature[°C]	-20 ~ 50 (3 months) 0 ~ 40 (1 year)			
Humidity[%]	0~100			
Altitude [m]	≤3000			
Protection	IP65			

### COMMUNICATION

System to Inverter	RS485/CAN2.0			
Master control LED Indicator working mode	1 LED			
Master control capacity indicator	4LED (25%, 50%, 75%, 100%)			
Switch on/off	Button*1+breaker*1			

### CERTIFICATE

Certificate	CE,IEC62619 ,UN38.3			
Hazardous materials classification	Class 9			

### GENERAL

Dimensions(WxHxD) [mm]	MC60060: 850*133*148 HV51100: 850*300(*1)*148 Base:850*55*148*	MC60060: 850*133*148 HV51100*2: 850*300(*2)*148 Base:850*55*180	MC60060: 850*133*148 HV51100*3: 850*300(*3)*148 Base:850*55*148	MC60060: 850*133*148 HV51100*4: 850*300(*4)*148 Base:850*55*148
Weight [kg]	55kg	MC60060: 10kg+2*HV51100: 110kg	MC60060: 10kg+3*HV51100: 165kg	MC60060: 10kg+ 4* HV51100: 220kg

\*Test Conditions: 100% DOD, 0.2C charge & discharge at + 25 °C

# MID

## GRID INPUT

AC output voltage (nominal) [Vac]	120/240 Split Phase
AC output voltage Range [Vac]	105.5~132 / 211~264
AC frequency (nominal) [Hz]	60
AC frequency Range [Hz]	59.3~60.5
AC current Input [A]	200

## OUTPUT TO MAIN DISTRIBUTION PANEL AT GRID TIE

AC output voltage (Nominal) [Vac]	120/240 Split Phase
AC output voltage range [Vac]	105.5~132 / 211~264
AC frequency (Nominal) [Hz]	60
AC frequency range [Hz]	59.3~60.5
AC current output [A]	200

## OUTPUT TO MAIN DISTRIBUTION PANEL AT BACKUP OPERATION

AC output voltage (nominal) [Vac]	120/240 Split Phase
AC output voltage range [Vac]	105.5-132 / 211-264
AC frequency (nominal) [Hz]	60
AC frequency range [Hz]	55~65
Split phase imbalance [A]	41.7
AC current output(Max) [A]	200

## INPUT FROM INVERTER

Number of inverter inputs	4
Rated AC power [W]	7600
Maximum continuous input current @240V [A]	32
Inverter input AC circuit breaker [A]	40

## GENERATOR

Maximum rated AC power [W]	15000
Maximum continuous input current [Aac]	63
Auto generator start	Yes

## OTHERS

Energy meter	1% Accuracy
Communication	Rs485
Number of communication Ports	2
Manual control over micro-grid interconnection device	Yes
LED display	3

## STANDARD COMPLIANCE

Safety	UL1741/CSA 22.2 NO.107/IEC62109-1
Emissions	FCC part 15 Class B, ICES 003

## INSTALLATION SPECIFICATIONS

AC from grid conduit size / AWG range	2' Conduit / #0-4/0 AWG
AC inverter conduit size / AWG range	1' Conduit / 14-4 AWG
AC generator input conduit size / AWG range	1' conduit / 8-3 AWG
Communication conduit size / AWG range	3/4' conduit / 24-10 AWG
Maximum elevation [ft/m]	6562/2000 MAX
Weight [lb/Kg]	52.9/24
Cooling	Fan (user replaceable)
Noise [dBA]	< 50
Operating temperature range [°F/ °C]	-13 ~ +140/-25 ~ +60
Protection rating	NEMA 3R
Dimensions (HxWxD) [in / mm]	16.9*24.4*6.7/430*620*169
Warranty [Years]	10