RESIDENTIAL HYBRID

3KW-5KW-10KW

Product Benefits

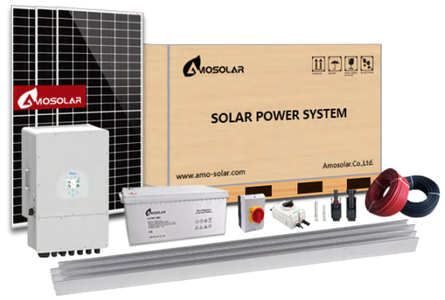
- Can operate in on-grid or off-grid mode
- Sell power back to the grid or store excess power for later use
- Use grid power or solar energy to charge the battery bank

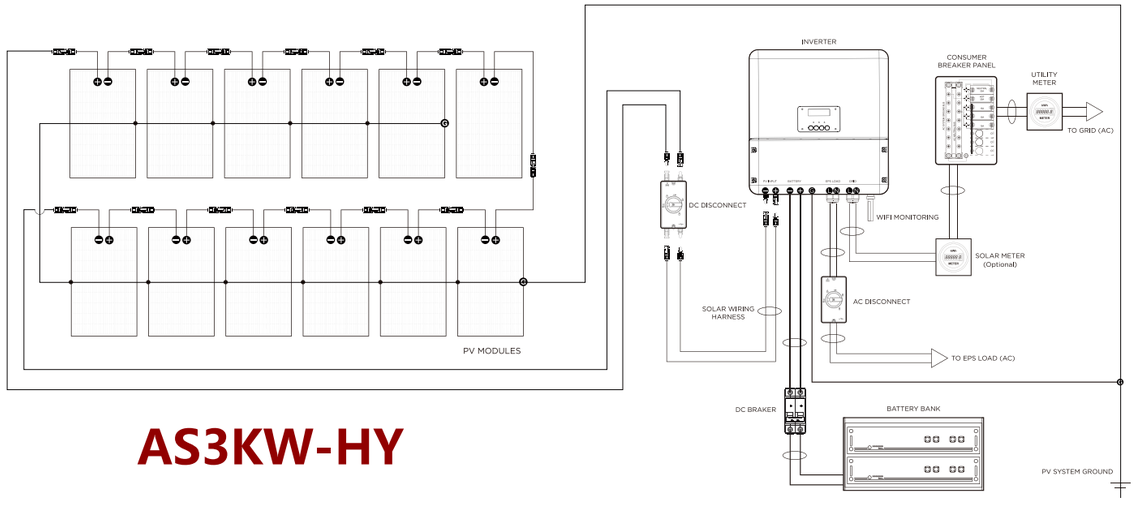
PV Kits Include

- Solar modules
- Hybrid inverter/charger
- Custom mounting system
- Battery bank
- PV battery bank & ground wiring harnesses
- Wire managerment kits

Common Application

- Locations with unstable grids
- Locations that do not allow net metering
- People who want to take advantage of the utility rate changes
- Those who cannot afford to lose power or have power outages





AS3KW-HY

PRODUCT MODEL		AS3KW-HY	AS5KW-HY	AS10KW-HY
PV System Size Nominal(kWp)		3.48	5.6	10.44
PV MODULE SPECIFICATIONS(*Mono)				
Power (W)		580		
Vmp (V)		43.86		
Voc (V)		53.05		
Isc (A)		13.78		
Imp (A)		13.23		
Dimensions (L x W x H)(mm)		2279*1134*30		
PV Module weight (kg)		22.44		
Certifications		CE /TUV(IEC 61215 &IEC61730)/UL(UL1703)		
*Polycrystalline PV modules also available up on request				
INVERTER SPECIFICATIONS				
Inverter Size (kW)		3	5	10
Max DC Power (W)		3900	6500	13000
Max DC Voltage (V)		600	600	1000
MPPT Voltage Range (V)		150-425	150-425	200-650
No.of MPPTS		1	2	2
Nominal AC Power(W)		3000	5000	10000
Max Output Current (A)		14.3	23.9	16.7
AC Nominal Voltage/Voltage Range (V)		220/230	220/230	220/380
AC Grid Frequency Range (Hz)		50/60	50/60	50/60
Number of Phases		1	1	3
Dimensions (W x Hx D)(mm)		330 x 433 x 238	330 x 580 x 232	422 x 702 x 281
Inverter Weight (kg)		14	20.5	33.6
Certifications		IEC62109-1-2 / IEC62040 / EN61000-6-1 / EN61000-6-2 / EN61000-6-3 VDE0126-1-1 A1:2012 / VDE-AR-N4105 / G83 / G59 / AS4777 / EN50438 / CEI0-21 / VDE2510		
EPS(OFF GRID MODEL WITH BATTERY)				
Rated Power (VA)		4000	5000	10000
Max Charge / Discharge Current (A)		70	120	240
*Max Power (W) for 10 Seconds		8000	8000	16000
*Assumes PF = 1				
BATTERY BANK SPECIFICATIONS				
Battery Type		Li-Ion(LiFePO4)		
Total Batteries		1	1	1
Battery Bank Power - Total (kWh)		4.8	4.8	9.6
Battery Voltage (V)		48	48	48
Battery Bank Voltage (V)		48	48	48
Battery Current (Ah)		50		
Battery Bank Current (Ah)		50		
Full Cycles (At Designed 80% DOD)		6000		
Connection		Series		
Certifications		TUV/CE		
Design Life (Years) / Warranty (Years)		> 10/5		
*Lead Acid batteries available upon request				
BOS				
DC / AC Disconnect		1/1	2/1	2/1
*PV Wire Harness - 4mm² (m)		100	200	200
*Ground Wire - 4mm² (m)		30	50	100
Battery Cables		Included		
*Extra wire is available up request				
SYSTEM LAYOUT				
Number of Modules		6	9	18
PV Array Surface Area (m²)		15.2	23.25	51.69
PV Array Weight (kg)		171.6	257.4	514.8
PV Module String Configuration 600VDC	No. of PV Modules/ String	6	9	9
	Total Strings	1	1	2
	String Voc(V)	318.3	449.1	449.1
	String Vmp (V)	263.16	377.64	377
	String Imp (A)		13.11	64
PRODUCTION ESTIMATES (kWh AC)				
*Projectd Daily Output at 4 PSH/ Day		13.92	20.88	41.76
*Projectd Daily Output at 5 PSH / Day		17.40	26.10	52.20
*Projectd Daily Output at 6 PSH/ Day		20.88	31.32	62.64
*Based on 85% system efficiency (formula = DC Power x Peak Sunshine Hours / Day x Systemn Effciency) (PSH = Peak Sunshine Hours)				
SYSTEM OPTIONS				
Monitoring Device		Wi-Fi / RS485		
PV Module Type		Monocrystalline(Poly also available upon request)		
Mounting System Types		Metal Roof, Asphalt Shingle, Tile Roof, Tin Roof, Flat Concrete Roof		
Inverters Stacked		Up to 10		
Battery Bank		Li-Ion or Lead Acid		
SHIPPING				
PV Kit Weight (kg)		390	450	810
PV Kit Shipping Size(L x W x H)(m)		1.7 x 0.7 x 1/0.5 x 0.5 x 0.5	1.7 x 1 x 1/0.5 x 0.5 x 0.5	1.7 x 1 x 1 0.5 x 0.5 x 0.5
Total Number of Boxes		2	2	4

*Specs are subject to change without further notification