

RESIDENTIAL OFF GRID

3KW-5KW-8KW

Product Benefits

- Become completely energy independent
- Reduce the burning of fossil fuels for a healthier environment
- Eliminate the problems of grid blackouts

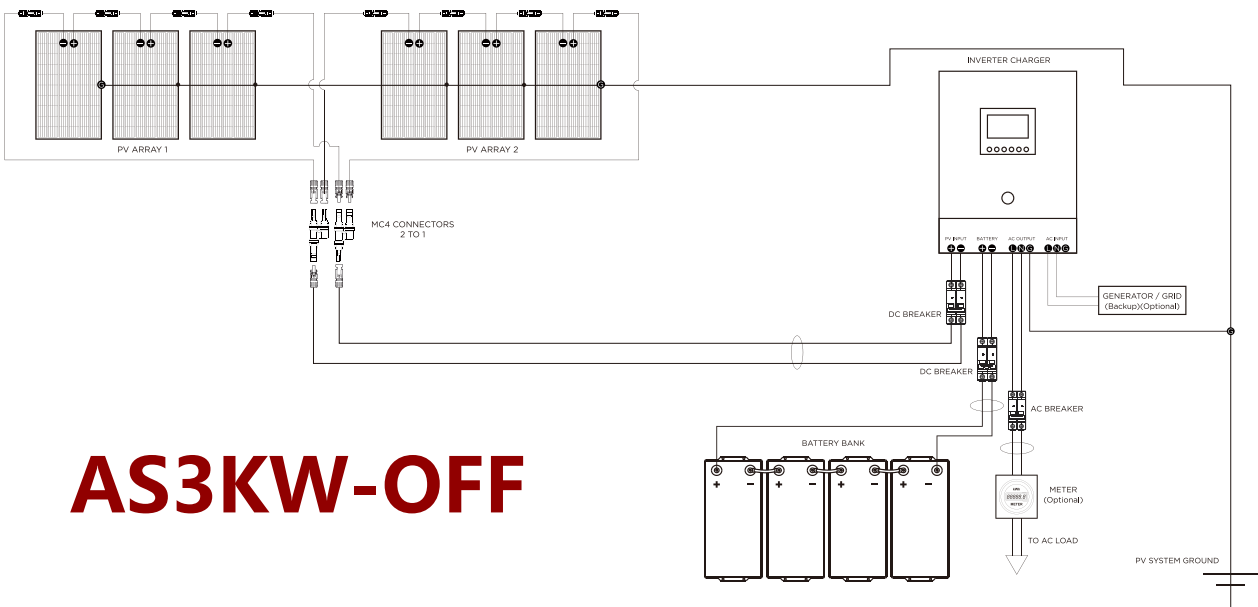
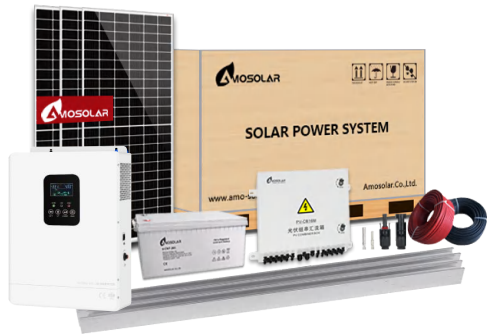


PV Kits Include

- Solar modules
- Off-Grid inverter/ charger
- Custom mounting system
- Battery bank
- PV, battery bank & ground wiring harnesses
- Wire management kits

Common Application

- Installation sites where bringing in the electricity from the grid is too expensive or difficult
- Locations where liquid fuel costs are too high or difficult to maintain
- Those looking to be completely in-dependent from the grid
- Those who cannot afford to lose power or have power outages



AS3KW-OFF

PRODUCT MODEL		AS3KW-OFF	AS5KW-OFF	AS8KW-OFF
PV System Size Nominal(inverter power)(kWp)		3.2	5	8
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 Continuous Power (kW)	3.2	5	8	
Battery Voltage (V)	24	48	48	
MPPT Charge Current (A)	100	100	100	
PV Input Power (W)	4000	6000	6000	
PV Voltage Range (V)	120-450Vdc	120-450Vdc	120-450Vdc	
Max Charge Current (A)	100	100	100	
AC Voltage (V)	220-240			
AC Frequency (Hz)	50 / 60			
Adjustable Model	MPPT+Inverter / AC+Inverter / MPPT+AC+Inverter			
Dimensions (W x Hx D)(mm)	400 ×315 ×101.5	440 ×342 ×101.5	525 ×355×115	
Inverter Weight (kg)	8.5	10	14	
Wave Form	Pure Sine Wave			
Typical Transfer Time (Ms)	10ms (For Personal Computers) / 20ms (For Home Appliances)			
BATTERY BANK SPECIFICATIONS				
Battery Type	Lead Acid Gel (VRLA)			
Battery Voltage (V)	12			
Battery Bank Voltage (V)	24	48		
Battery Capacity (Ah)	150	100	200	
Battery Bank Capacity (Ah)	150	100	200	
Battery Bank Power - Total (Wh)	3600	4800	9600	
Battery Bank Power - 50% DOD (Wh)	1800	2400	4800	
Battery Dimensions (L x W x H)(mm)	484 ×172 ×241/241	330×171×217/225	522 ×240 ×219/225	
Battery Weight(kg)	36.5	25.5	53	
Full Cycles (50%DOD)	1800			
Total Batteries - *storage can be increased	2	4		
Connection	Series			
Certifications	CE / RU / ISO 14001 / OHSAS 18001			
BOS				
Main Disconnect Box(or Breakers)	Yes			
*PV Wire Harness - 4mm² (m)	100	200	400	
*Ground Wire - 4mm² (m)	30	50	100	
*Extra wire is available up request				
SYSTEM LAYOUT				
Number of Modules	5	8	12	
Number of Inverters	1	1	1	
PV Array Surface Area (m²)	12.9	20.7	31	
PV Array Weight (kg)	143	228.8	350	
PV Module	No. of PV Modules/ String	5	8	6
	Total Strings	1	1	2
String	String Voc(V)	265.25	424.4	318.3
Configuration	String Vmp (V)	219.3	350.88	263.16
	String Imp (A)	13.23	13.23	26.46
600VDC				
PRODUCTION ESTIMATES (kWh AC)				
*Projectd Daily Output at 4 PSH/ Day	11.6	18.56	27.84	
*Projectd Daily Output at 5 PSH / Day	14.5	23.2	34.8	
*Projectd Daily Output at 6 PSH/ Day	17.4	27.84	41.76	
*Based on 85% system efficiency (formula = DC Power x Peak Sunshine Hours / Day x Systemn Efficiency) (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			
AC Back Up Input	Utility Grid / Power Generator			
Battery	12V Gel / 2V Gel / Tubular Gel (OPzV) / Lithium Ion			
SHIPPING				
PV Kit Weight (kg)	200	350	500	
PV Kit Shipping Size(L x W x H)(m)	2CBM	2CBM	3CBM	
Total Number of Boxes	1	1	1	

*Specs are subject to change without further notification