

COMMERCIAL OFF GRID

30KW-40KW-60KW-80KW-100KW

Product Benefits

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

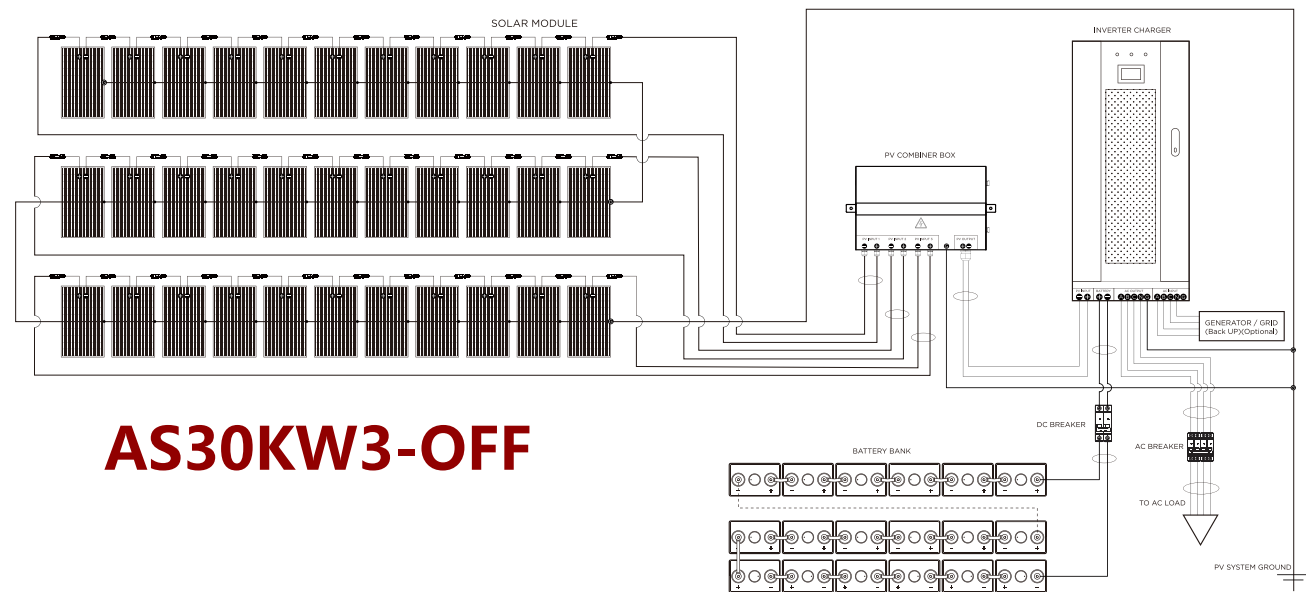


PV Kits Include

- Solar modules
- Off-Grid inverter/charger
- Custom mounting system
- Battery bank
- PV combiner box
- 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 independent from the gri
- Those who cannot afford to lose power or have power outages



AS30KW3-OFF

PRODUCT MODEL	AS30KW3-OFF	AS40KW3-OFF	AS60KW3-OFF	AS80KW3-OFF	AS100KW3-OFF
PV System Size Nominal(inverter power)(KVA)	30	40	60	80	100

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 & IEC 61730) / UL (UL1703)

*Polycrystalline PV modules also available up on request

INVERTER SPECIFICATIONS

Rated Output Power (kW)	27	36	54	72	90
Over Load Capacity	105-110% for 1h; 110-125% for 10min; 125-150% for 1min; 150% shut down in 10s; 200% shut down immediately				
AC Voltage (V)	3/N/PE, 380/400/415Vac±2%				
AC Frequency (Hz)	50/60±5				
Battery Voltage (Vdc)	360				
MPPT Charge Current (A)	120	180	240	300	
PV Input Power (W)	25	50	75	125	
PV Voltage Range (V)	450-550				
Transfer Time(Inverter/Bypass)	0ms				
Display	LCD+LED				
Dimensions (W x Hx D)(mm)	600 x 700 x 1750				960 x 800 x 1700
Inverter Weight (kg)	380	430	515	760	800

BATTERY BANK SPECIFICATIONS

Battery Type	Lead Acid Gel				
Battery Voltage (V)	12				
Battery Bank Voltage (V)	360				
Battery Bank Current (Ah)	100	120	200	250	150
Battery Bank Power - Total (Wh)	36000	43200	72000	90000	108000
Battery Bank Power - 50% DOD (Wh)	18000	21600	36000	45000	54000
Battery Dimensions (L x W x H)(mm)	330 x 171 x 217/225	406 x 172 x 237/237	522 x 240 x 219/225	520 x 269 x 220/228	484 x 170 x 241/241
Battery Weight(kg)	25.5	33	53	60	36.5
Total Batteries - *storage can be increased	30				60
Connection	Series				Series and Parallels
Certifications	CE / RU / ISO 14001 / OHSAS 18001				

BOS

PV Combiner Box (Type/#)	2 to 1/2	3 to 1/2	3 to 1/3	3 to 1/4	3 to 1/5
*PV Wire Harness - 4mm² (m)	400	600	900	1000	1000
*DC Wire (Combiner Box to Inverter)-10mm²(m)	100	100	100	100	100
*Ground Wire - 4mm² (m)	100	100	100	100	100
PV Mounting System	Customized				
Battery Bank Rack	Customized				

*Extra wire is available up request

SYSTEM LAYOUT

Number of Modules	48	66	99	132	165
Number of Inverters	1	1	1	1	1
PV Array Surface Area (m²)	124	170.5	255.7	341	426
PV Array Weight (kg)	1373	1888	2831	3775	4719
PV Module String Configuration 600VDC	No. of PV Modules/ String	12	11	11	11
	Total Strings	4	6	9	12
	String Voc(V)	636.6			583.55
	String Vmp (V)	526.32			482.46
		52.92	79.38	119.07	158.76
					198.45

PRODUCTION ESTIMATES (kWh AC)

*Projectd Daily Output at 4 PSH/ Day	108	144	216	288	360
*Projectd Daily Output at 5 PSH / Day	135	180	270	360	450
*Projectd Daily Output at 6 PSH/ Day	162	216	324	432	540

*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, Ground
AC Back Up Input	Utility Grid / Power Generator
Battery	12V Gel / 2V Gel / Tubular Gel (OPzV) / Lithium Ion

*Specs are subject to change without further notification