

POVERCUBE[™]

Datasheets



Off-Grid Photovoltaic System Kits







Product Description

Off Grid Solar Kits are designed for easy installation and low maintenance.Off Grid solar systems are noiseless, produce zero emissions, and offer grid independence, unlike standard On-Grid PV Systems which will not provide electricity to your house during a power outage due to safety regulations.





What's in the Box

- Solar modules
- Off-grid inverter/charger
- Custom roof mounting system
- Battery bank
- Battery storage unit
- PV, battery bank & grounding wiring harnesses
- DC and AC disconnects
- Wire management kit
- Grounding hardware
- Safety lebel kit
- Single and three-line electrical and mechanical schematics



Total Electrical Independence

With a Lithium Battery backbone and transformer based inverter, the off-grid kits require no grid connection and are a great option for areas with limited or no power access. Whether you will be using an off-grid solar system for your remote cabin, your place of business or your full-time residence, we have an off-grid solution that can fit almost any installation requirement. Our off-grid kits have the capability to be expanded if future energy storage is required.

Product Benefits

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

Common Applications

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

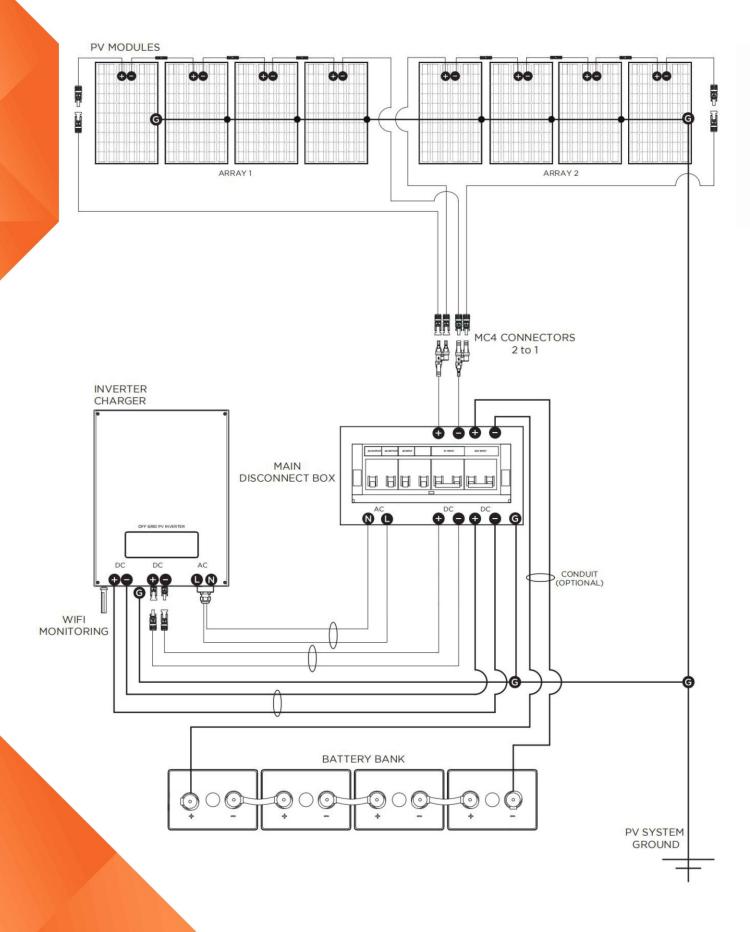
Hybrid On-Grid / Off-Grid Battery PV Kits

SYSTEM SIZE		2KW	3KW	4KW	5KW	
PRODUCT MODEL		PCO-2KW	PCO-3KW	PCO-4KW	PCO-5KW	
PV System size I	Nominal(Wp)	2250W	3000W	4500W	5250W	
	PECIFICATION (MC	NO)				
Panel Model	Lon location (me		OP375	M60-P2		
Power(W)		OP375M60-P2 375				
Vmp(V)		34.4				
		41.6				
Voc(V) Isc(A)		11.45				
Imp(A)		10.89				
Dimen sions(L x W x H)(mm)		1763x1040x30mm				
PV module weight(kg)		20				
Certifications		VDE CE CEC ETL INMETRO				
			VDE CE CEC			
	CIFICATIONS (600		0		-	
Inverter Size(kw)		2	3	4	5	
Max DC Power(W)		2000	3000	4000	5000	
Max DC Voltage(V)		60-150				
MPPT Voltage range(V)		220VAC±5%,230VAC(-10&~+5%) 220VAC±3%,230VAC(-7&~+3%)				
No.of MPPT'S						
Max AC Power(VA)		1600	2400	4000	5000	
Max Output Current(A)		30	60	80	100	
AC Nom.Voltage/Voltage Range(V)		170~270				
AC Grid Freque ncy range(Hz)		50/60				
Number of phases		1 444*300*126 614*315*178				
Dimensions(L x W x H)(mm)			60		1	
Inverter weight(kg)		30		80	100	
Certifications			0-6-2 EN61000-6-3 EN6100	00-3-2 VDE4105 EN50549	CEI0-21	
	salsovailable upon reque	st				
BOS		4	4	4	4	
#DC Isolator 1200V		1	1	1	1	
#AC Isolator		1	1	1	1	
#AC Breaker		1	1	1	1	
*PV Wire Harmess.4mm(meters)		20 30 40 50				
*Ground Wire.4mm(meters)		N/A YES				
Battery Cables * Extra wire is avaib			1	5		
SYSTEMLAYO	JI	6	8	10	14	
# of Modules		0		12	14	
# of inverters		1				
PV Layout options		Landscape or Portrait				
PV Arrary Surface Area(m2)		11.00	14.67	22.00	25.67	
PV Arrary Weigh	No.of PV Modules/String	120 12	160	240	280	
PV Module	Total Strings	12	2	2	2	
	String Voc	249.6	332.8	499.2	582.4	
Configuration 1000VDC	String Vmp	249.6	275.2	499.2	481.6	
TUUUVDC	String Imp	200.4	275.2		401.0	
	String imp		10.	09		
PRODUCTION	ESTIMATES(KWh)					
*Projectedyearly outputat 1100GHI/year		2103.75	2805.00	4207.50	4908.75	
*Projectedyearly outputat 1460GHI/year		2792.25	3723.00	5584.50	6515.25	
*Projectedyearly outputat 1825GHI/year		3490.31	4653.75	6980.63	8144.06	
* Based on 0.85% s	ystem deraling(formula=	DC Power x peak sunshine hour/y	year x derate factor)(GHI=Global	Horizotall radiance)		
SYSTEM OPTIC	ONS					
Wifi Monitor		Wifi or GPRS				
PV System Color		Siliver or Full Black				

WITH WIOTHLOF	Will of GFRS		
PV System Color	Siliver or Full Black		
Mounting System Types	Metal Roof Aspht Shingle, Tile roof, Flat Concrete		
Battery Bank	Lithium Iron		



Off-Grid Example Layout (3kW)



POWERCUP 3kW

The all-in-one Box Solution

The difference is clear, get better results with our all in a box packaging solution. Our innovative heavy duty ISPM15 compliant care design not only protects the contents during international shipping but also ensures that the solar kits arrive to their destination site undamaged and ready for installation. Our BOS toolboxes are included in all our solar kits and designed with the installer in mind.



ENVOLTAGE

Packaging Specs

Designed to be warehouse friendly for distribution centers and local logistics companies, our kits are easily stacked, inventoried, and consolidated.

1 kit per pallet

1.5kW 1.8 x 0.3 x 1

3kW 1.8 x 0.6 x 1 2 pallets per kit

13 kits per 20' 26 kits per 40'

52 kits per 20'

104 kits per 40'



2kW 1.8 x 0.45 x 1 1 kit per pallet

32 kits per 20' 64 kits per 40'



4kW 1.8 x 0.75 x 1 2 pallets per kit

10 kits per 20' 20 kits per 40'

