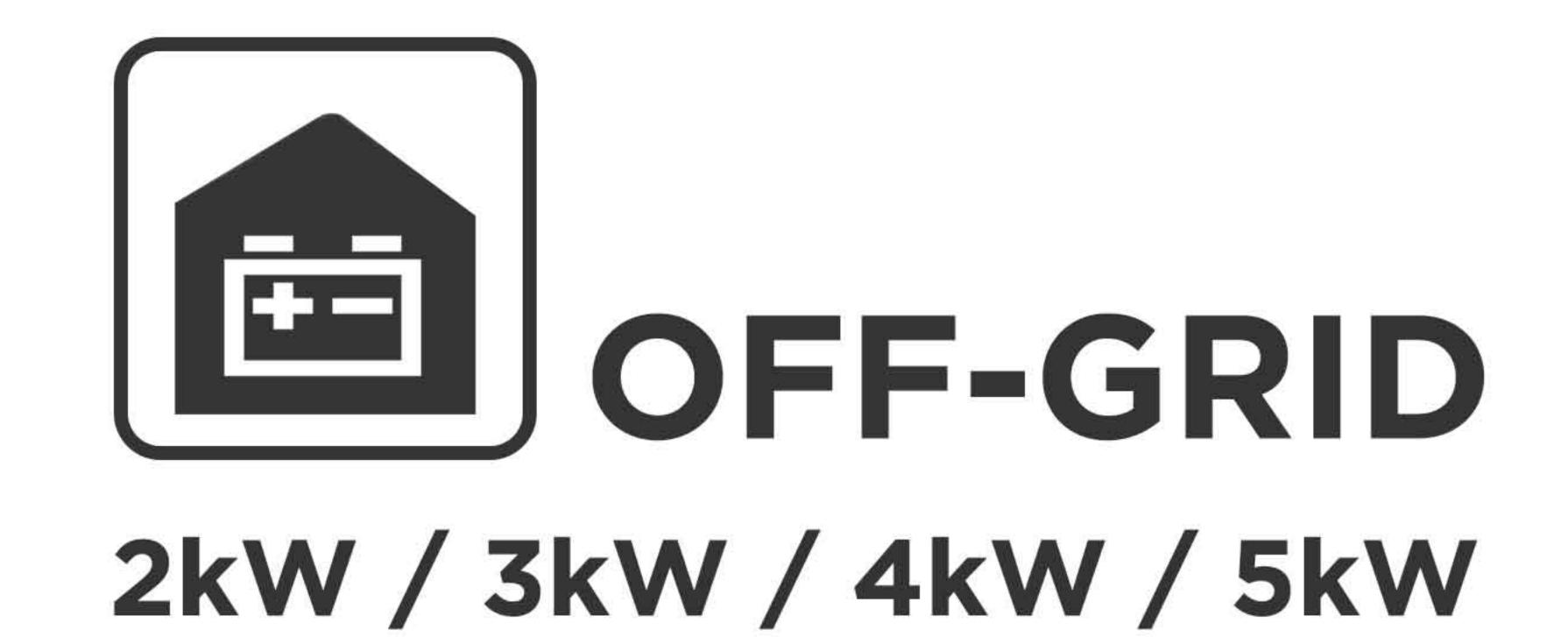


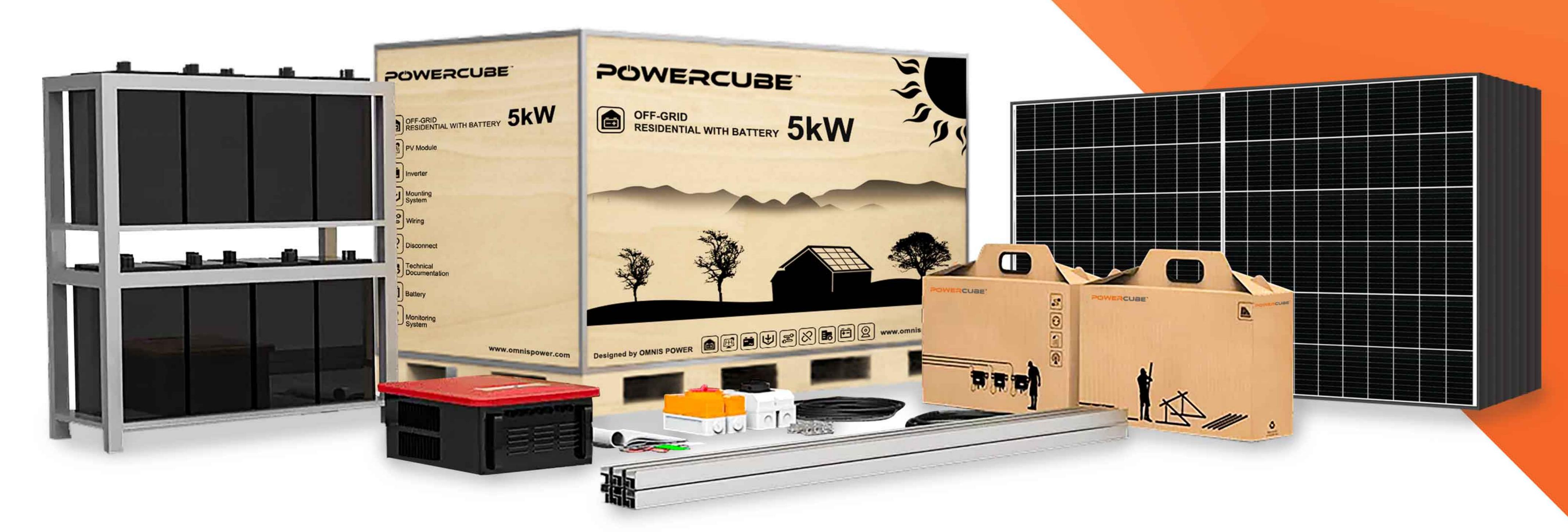
# POWERCUBE

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.



#### Full Independance

Off-Grid
systems are
independent of the
standard utility grid,
and can typically
deliver the equivalent
expectations of the
traditional grid.



#### Increase your value

Increase the value of your home and business by giving them total grid independance and stop relying on the grid with this added value.



### Light up your world

Bring power to areas with limited or no access to electricity, whether it's a remote cabin, your business, or your residence, we have a solution that can fit any installation requirements.



### 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 backhome and transformer based inverter, the off-grid kits require no grid connection and are a great option for areas with limited or with 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, OmnisPower has an off-grid solution that can fit almost any installation requirement. Symtech Solar's 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

PV System Color

**Battery Bank** 

Mounting System Types

# 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 Nominal(Wp)		2250W	3000W	4500W	5250W
PV MODULE SPECIFICATION (MONO)					
Panel Model		OP375M60-P2			
Power(W)		375			
Vmp(V)		34.4			
Virip(V) Voc(V)		41.6			
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			
	CIFICATIONS (600	VDC)			
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			
Dimensions(L x W x H)(mm)		444*3	00*126	614*3	15*178
Inverter weight(kg)		30	60	80	100
Certifications		EN61000-6-2 EN61000-6-3 EN61000-3-2 VDE4105 EN50549 CEI0-21			
12/240VUL inverters	salsovailable upon reque	st			
BOS					
#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			
Battery Cables		YES			
* Extra wire is avaible	le upon request				
SYSTEMLAYOUT					
# of Modules		6	8	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 Weight(kg)		120	160	240	280
	No.of PV Modules/String	12	7	8	10
PV Module	Total Strings	1	2	2	2
Configuration	String Voc	249.6	332.8	499.2	582.4
1000VDC	String Vmp	206.4	275.2	412.8	481.6
	String Imp	10.89			
PRODUCTION ESTIMATES(KWh)					
*Projectedyearly outputat 1100GHI/year			2805.00	4207.50	4908.75
*Projectedyearly outputat 1460GHI/year			3723.00	5584.50	6515.25
*Projectedyearly outputat 1825GHI/year			4653.75	6980.63	8144.06
* Based on 0.85% system deraling(formula=DC Power x peak sunshine hour/year x derate factor)(GHI=Global Horizotall radiance)					
		J.J. A. podik odilolilio liodity	iacion/(orin olobari		
SYSTEM OPTIC	JN5				
Wifi Monitor		Wifi or GPRS			

Siliver or Full Black

Metal Roof Aspht Shingle, Tile roof, Flat Concrete

Lithium Iron

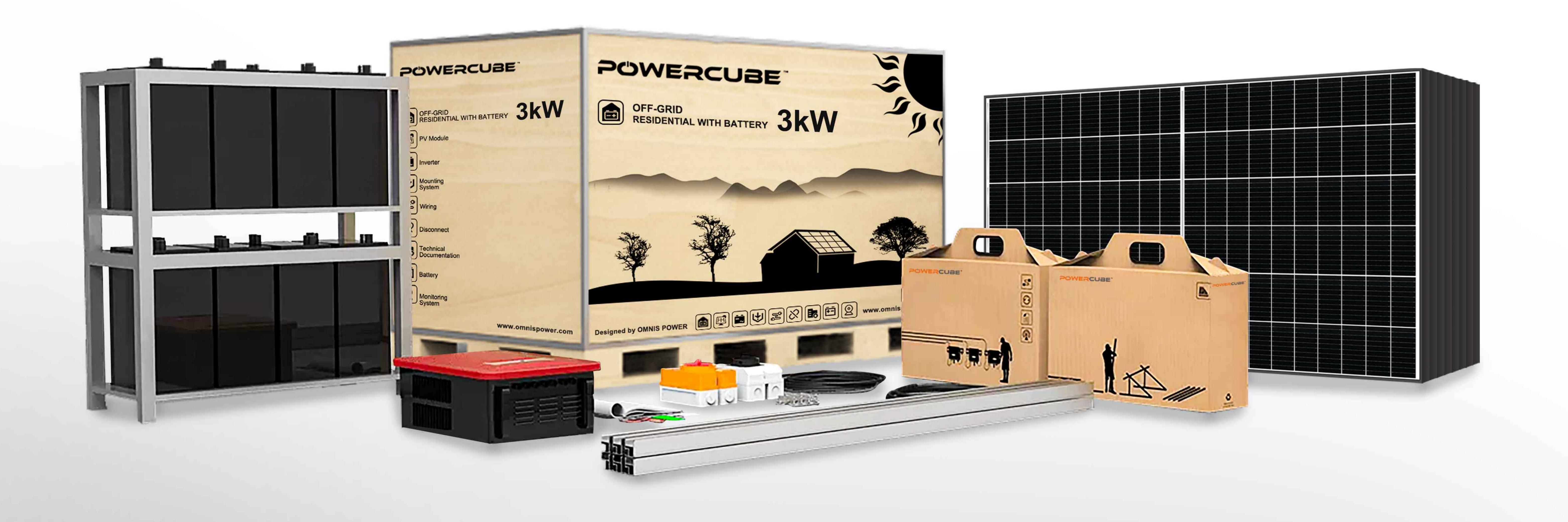
# Off-Grid Example Layout (3kW)





## The all-in-one Box Solution

The difference is clear, get better results with our all in a box packaging solutions. Omnis Power Solar's 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. Omnis Power Solar's BOS toolboxes are included in all our solar kits and designed with the installer in mind. With years of installation experience, we understand the benefits of having a safe and well organized jobsite.



### Packaging Specs

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

### 1.5kW

 $1.8 \times 0.3 \times 1$ 1 kit per pallet

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'



### 3kW

1.8 x 0.6 x 1 2 pallets per kit

13 kits per 20' 26 kits per 40'



### 4kW

 $1.8 \times 0.75 \times 1$ 2 pallets per kit

10 kits per 20' 20 kits per 40'



