

# POWERCUSE

Datasheets



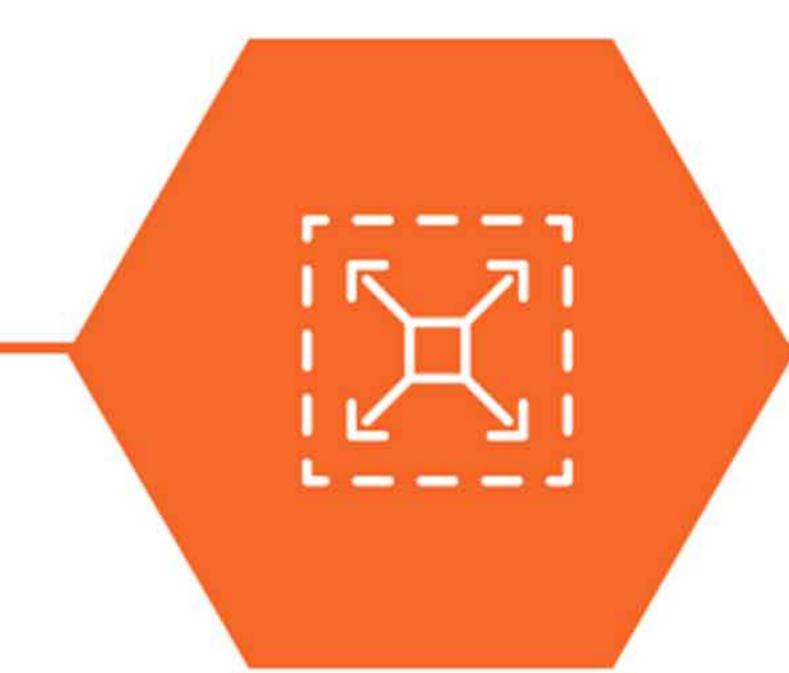
Photovoltaic Carport System Kits Omnis Power | Product Line





## Product Description

Solar carport are designed to utilize new or existing parking areas and generate power without sacrificing real estate. Typically offered as an On-Grid PV solution, their innovative design delivers a cross-platform solution combining energy generation and a substitute to shading/weather protection for vehicles.



### Space optimizer

Ideal for sites that are restricted in space. Our carport kits serve as an economical alternative to traditional carport structures



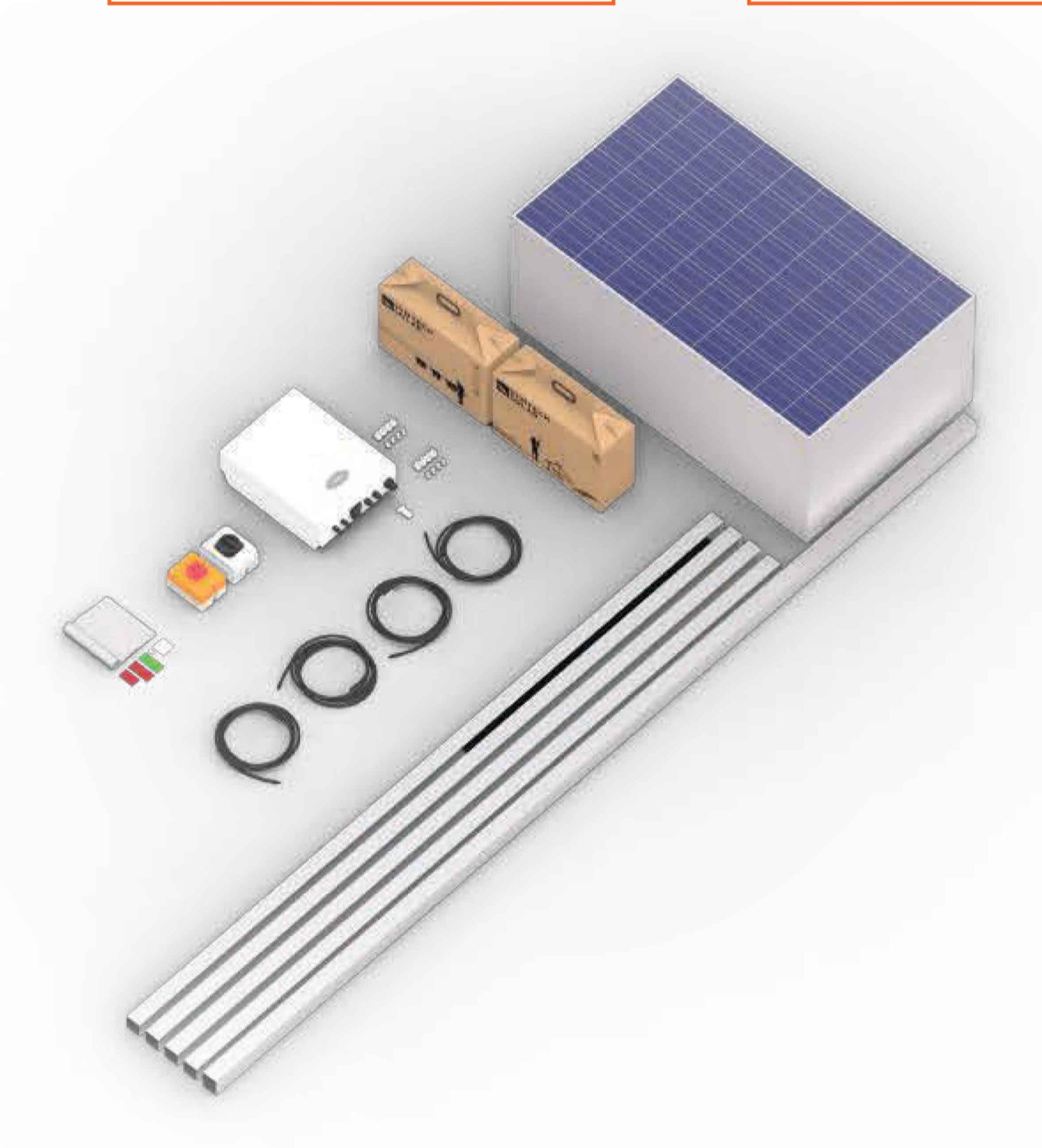
#### Weather resistant

Hercules kits use solar modules for the roofing canopy and are structurally engineered to guarantee corrosion and wind resistance ensuring a good as gold performance to price ratio.



#### Thought for the future

Hercules carport grid
tie systems are
compatible with most
electric vehicle
charging stations,
making them an
innovative, clean and
environment-friendly
fuel source platform.



### What's in the Box

- Solar modules
- Solar on-grid inverter
- Custom carport mounting system
- PV wiring and grounding harnesses
- DC and AC disconnects
- Wire management kit
- Grounding hardware
- Safety label kit
- Single and three-line electrical and mechanical schematics

### Your Own Solar Power Plant

Solar Canopies are an innovative product that can turn a typical, non-productive parking lot or walkway into a cost effective solar power plant. with no field welding, drilling, or other on-site fabrication, Solar Carports are ready to install upon delivery. Manufactured & designed for simplicity, practicality, & peace of mind.

### Product Benefits

- Multi benefit functionality including solar energy and covered parking technology
- Simple and elegant design
- Easily scalable from 5kW to 5MW
- Reduce the carbon emissions from vehicles (when used as a charging station)

### Common Applications

- Commercial centers
- Schools
- Residential homes
- Shopping centers and malls
- Housing developments
- Car charging stations

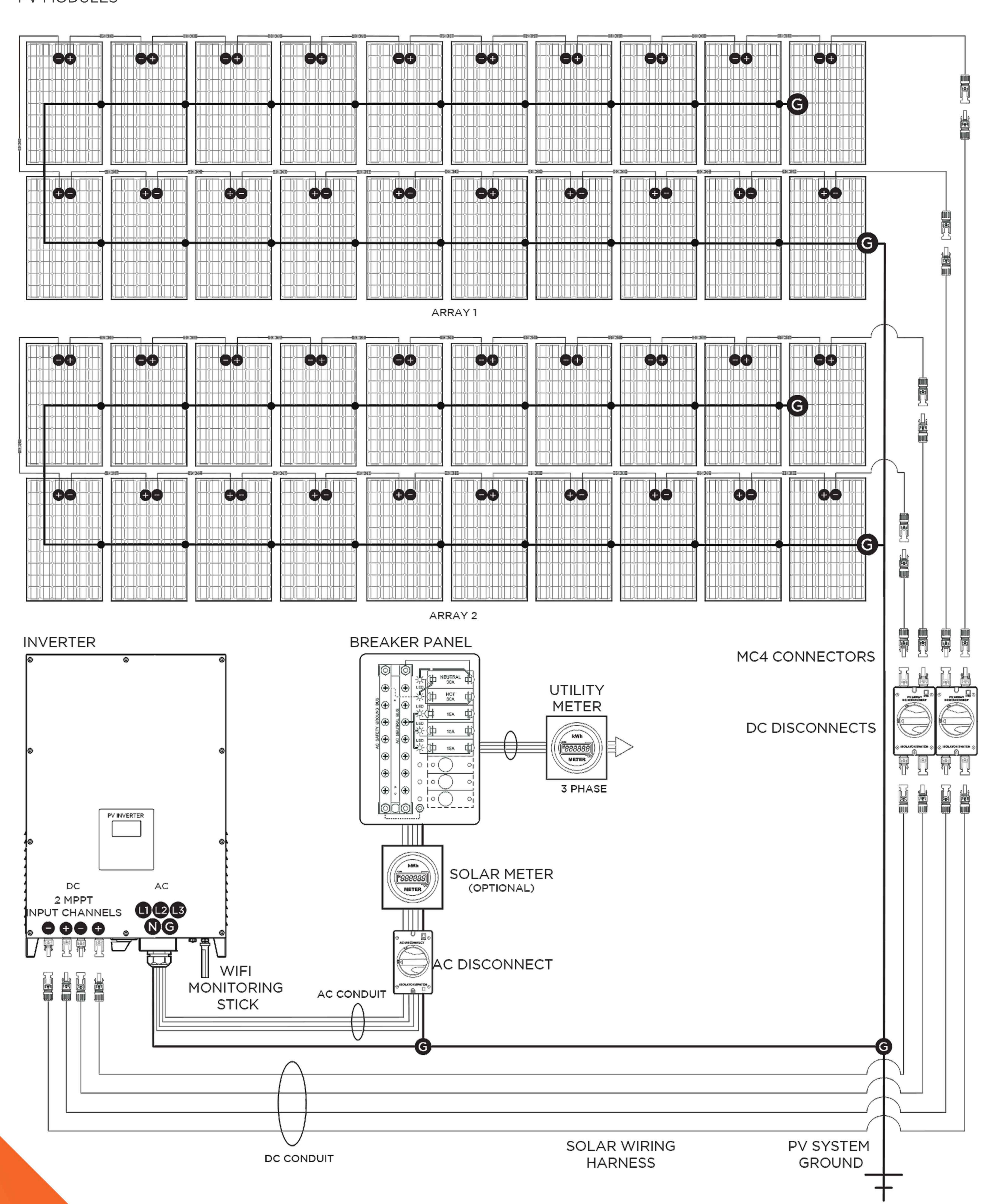


# Solar Carport Systems

PRODUCT NAME		5KW	10KW	20KW	50KW
Product Serise		Hercules Series			
System size Nominal(kWp)		5.3	10.6	21.2	53
Part #		HER-5	HER-10	HER-20	HER-50
Parking Spaces(for average compact car)		2	4	8	20
PV MODULE SPECIFICATIONS (*POLY)					
Power(W)		265			
Vmp(V)		31.1			
Voc(V)		38.2			
Isc(A)		9.1			
Imp(A)		8.55			
Dimensions(L x W x H)(mm)		1638x982x35			
PV module weight(kg)		19.5			
Certifications		TUV(IEC61215&IEC61730)/VDE(IEC61215&IEC61730)/UL/CE - TUV(IEC61215&IEC61730)/CE			
Monocrystalline PV modules also available upon request - 72 Cell modules also available upon request					
	C (*230V-400V Nor	ninal) _			
Inverter Size(kw)		5	10	20	50
Max DC Power(W)		5800	11500	24000	55
Max DC Voltage(V)		600	1000		1100
MPPT Voltage range(V)		100-500	200-800		200-1000
No.of MPPT'S/Max Strings		2/2	4/8		4/12
Max AC Power(VA)		5.5	11	22	50
Max Output Current(A)		45.9			80
AC Orist Francisco (VI)		230V/160 to 285 400/304-460			
AC Grid Frequency range(Hz)		50-60			
Number of phases		1		3	
Dimensions(L x W x H)(mm)		310x543x160	430x613x269	530x700x357	630x700x357
Inverter weight(kg) Certifications		11.5	29	57.2	53
120/240/480V UL inverters also vailable upon reque		CAN / CSAC22.2 N107.1, UL 1741, UL 1998, UL 1699B, FCC part 15, Class B — AS4777,  AS / NZS 3100, CE, VDE 0126-1-1, DK5940, G83 / 1-1, G59 / 2,  RD 1663, EN50438, VDE-AR-N4105, CEI-021, IEC-62109, ENEL-Guide			
BOS CONFIGURATION(1000VDC)					
AC/DC Disconnect		1/2	1/2	1/4	2/10
*PV Wire - 4mm(meters)		100	200	350	500
*Ground Wire - 4mm(meters)  * Extra wire is avaible upon request		50			
* Extra wire is avaible upon request  SYSTEM LAYOUT					
# of Modules		20	40	80	200
PV Layout options			Landscape or Portrait		
PV Arrary Surface Area(m2)		34	68	136	340
PV Arrary Weight(kg)		390	780	1560	3900
	No.of PV Modules/String	10		20	
PV Module	Total Strings	2	2	4	10
Configuration	String Voc - Poly	382		764	
600-1000VDC	String Vmp - Poly	311		622	
	String Imp		8.5		
PRODUCTION ESTIMATES(KWh AC)					
*Projected yearly output at 1100kWh/year			9911	19822	49555
*Projected yearly output at 1460kWh/year			13154.6	26309.2	65773
	utput at 1400kwii/year utput at 1825kWh/year		16443.25	32886.5	82222
* Based on 0.85% system deraling(formula=DC Pow					
SYSTEM OPTIONS					
Wifi Monitor		Wifi or GPRS			
PV Module Type		Monocrystalline or Polycrystalline - 60 or 72 Cell			
PV System Color		Siliver or Black			
PRODUCTION ESTIMATES(KWh AC)					
PV Kit Weight(kg)		750	1500	2400	7500
PV Kit Shipping Size(L/W/H)(m)		1.7/1.1/1-4/0.6/0.6	1.7/1.1/1-4/1.2/0.6	1.7/1.1/1-4/1.2/1.2	20'Container
Total number of Boxes		2	3	5	1
Packing Material		S	Symtech SymPack Wood Crate	es	Cardboard/Pallets
		Oginiosii Ogini acit 1100a Oratos			

# Solar Carport Example Layout (10kW)

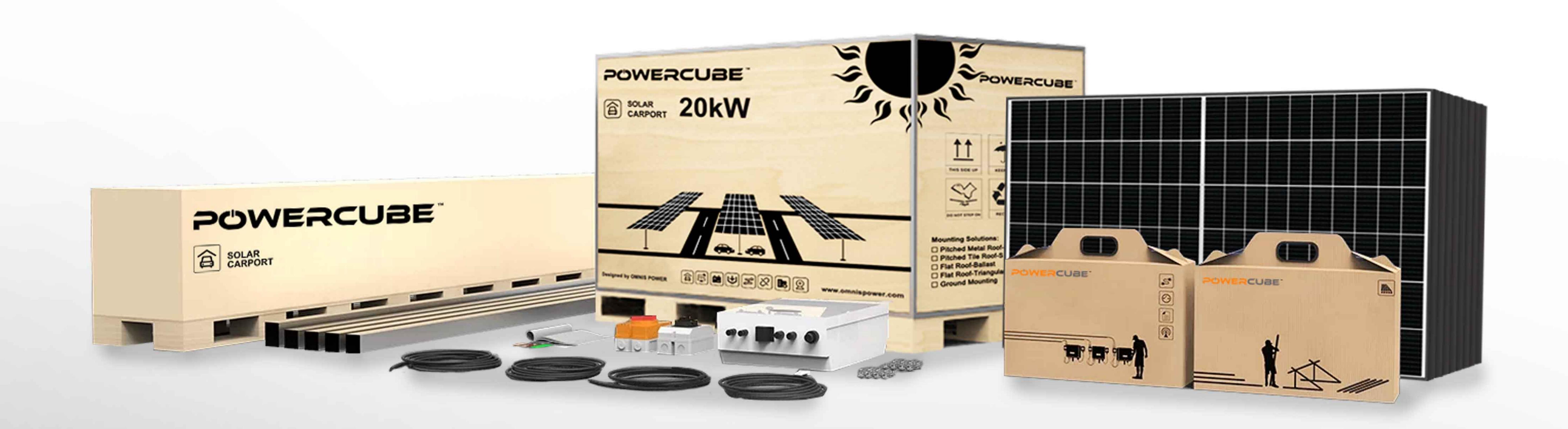
PV MODULES





### 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.



Omnis Power | Product Line

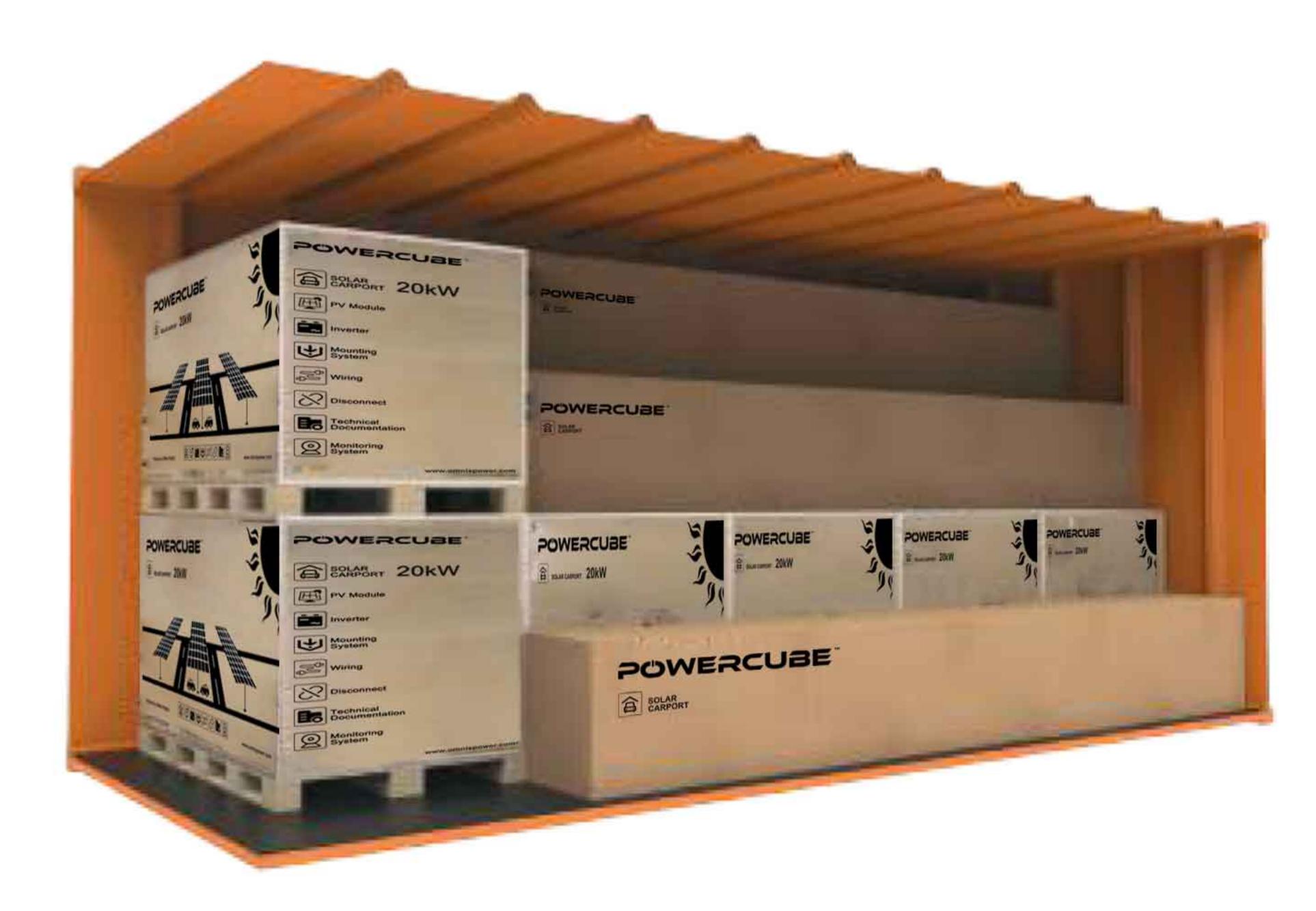
### Packaging Specs

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

### 5kW

1.8 x 0.7 x 1 1 kit per pallet

6 kits per 20' 12 kits per 40'



### 20kW

1.8 x 1 x 1 1 kit per pallet

12 kits per 20' 24 kits per 40'



### 10kW

1.8 x 0.9 x 1 1 kit per pallet 12 kits per 20' 24 kits per 40'



### 50kW

1.8 x 1 x 1 1 kit per pallet

12 kits per 20' 24 kits per 40'

