

POWERCUBE[™]

Datasheets



Commercial On-Grid Photovoltaic System Kits







10kW / 15kW / 20kW / 30kW / 60kW / 100kW

Product Description

These innovative commercial Solar PV Kits are ideally suited for any business that is looking to reduce rising energy costs and hedge against future energy inflation.Our pre-engineered kits are suitable for most installation sites including commercial roof tops and ground mountingl ocations.



Help the environment

Business owners reduce electricity costs whilst simultaneously promote their brand commitment to the environment and enhace their social corporate responsibility.



Increase your value

Depreciate financial contributions and sell any excess electricity generated by the system back to the grid. Increase the ROI and enjoy added marketing benefits from a highly visible landmark.



Great adaptability

Let our systems fit in your needs. We offer flexible design to serve space restricted areas. They come in a variety of inverter voltage ranges which can be adapted to site-specific electrical requirements.



What's in the Box

- Solar modules
- Solar on-grid inverter (3 phase)
- Custom roof mounting system
- PV wiring harnesses
- · DC and AC disconnects
- · Wire management kit
- Safety label kit
- Single and three-line electrical and mechanical schematics



Solar Power for your Business

Offered in both pre-configured and site specific designs, PV systems save time and money when planning and adopt ing solar into commercial settings.

Designed to match your business's requirements, commercial PV systems are delivered install ready and hold internationally compliant certifications. Directly shipped from our facilities in Shanghai, China, our Commercial line is ideally suited for businessapplications.

Product Benefits

- Hedge yourself against future utility increases
- Sell excessive power back to the utility grid (net metering)
- Solar modules have up to a 25-year warranty and a typical lifetime of 40+ years
- Reduce your building operationg costs
- Low maintenance/high reliability

Common Applications

- Factories
- Distribution cnters
- Shopping centers
- Office buildings
- Libraries
- Churches
- Schools



Mounting System Types

Battery Bank

Commercial On-Grid PV Kits

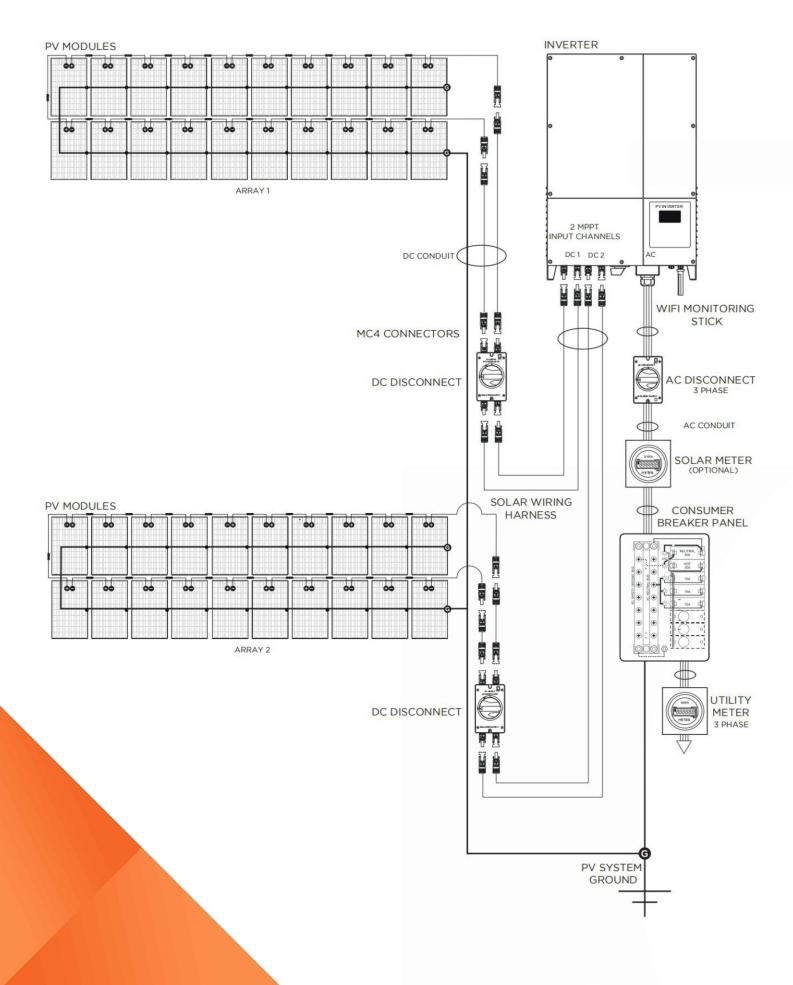
SYSTEM SIZE		10KW	15KW	20KW	30KW	60KW	100KW	
PRODUCT MODEL		PCC-10KW	PCC-15KW	PCC-20KW	PCC-30KW	PCC-60KW	PCC-100KV	
PV System size Nominal(Wp)		9900W	15300W	21600W	30600W	61200W	102600W	
PV MODULE SPE	CIFICATION (MC	NO)						
Panel Model		OP450M72-P3						
Power(W)		450						
Vmp(V)		40.8						
Voc(V)		48.9						
Isc(A)		11.24						
Imp(A)		10.67						
Dimen sions(L x W x H)(mm)		2110x1046x35mm						
PV module weight(kg)		28.6						
Certifications		VDE CE CEC ETL INMETRO						
INVERTER SPEC	IFICATIONS (600	VDC)						
Inverter Size(kw)		10	15	20	30	60	100	
Max DC Power(W)		11500	16500	23000	34000	78000	130000	
Max DC Voltage(V)		1000						
MPPT Voltage range(V)		200-800 200-1000						
No.of MPPT'S		2			4			
Max AC Power(VA)		11000	15000	20000	30000	66000	55000	
Max Output Current(A)		14.5	23.9	3*33.5	3*48	3*92	3*83	
AC Nom.Voltage/Voltage Range(V)				220/230/24	0 180-280V			
AC Grid Freque ncy range(Hz)		50/60						
Number of phases	y range(riz)				3			
Dimensions(L x W x H)(mm)		534*419*201	534*419*179	555*4	46*270	855*	555*275	
Inverter weight(kg)		30	32	37	40			
Certifications		EN61000-6-2 EN61000-6-3 EN61000-3-2 VDE4105 EN50549 CEI0-21						
	sovailable upon reque	st	E1401000-0-2 E140	51000-0-5 EN010	00-0-2 VBL4100 L	1100043 0210-21		
BOS	sovaliable apoli reque	31						
#DC Isolator 1200V		2	2	2	2	2	2	
#AC Isolator		1	1	1	1	1	1	
#AC Breaker		1	1	1	1	1	1	
*PV Wire Harmess.4mm(meters)		1	1	1	1	1	2	
*Ground Wire.4mm(meters)		100	100	200	300	300	400	
Battery Cables		N/A						
Extra wire is avaible	upon request							
SYSTEMLAYOUT								
# of Modules		22	34	48	68	136	228	
# of inverters		1						
PV Layout options		Landscape or Portrait						
PV Arrary Surface Area(m2)		48.56	75.04	105.93	150.08	300.16	503.2	
PV Arrary Weight(k	(g)	629.2	972.4	1372.8	1944.8	3889.6	6520.8	
1	No.of PV Modules/String	22	34	48	68	136	228	
PV Module	Total Strings	2	2	4	4	8	12	
Configuration	String Voc	1075.8	1662.6	2347.2	3325.2	6650.4	5574.6	
1000VDC	String Vmp	897.6	1387.2	1958.4	2774.4	5548.8	4651.2	
5	String Imp			10	.67			
PRODUCTION ES	STIMATES(KWh)							
PRODUCTION ESTIMATES(KWh) Projectedyearly outputat 1100GHI/year		9256.5	14305.5	20196	28611	57222	95931	
*Projectedyearly outputat 1460GHI/year		12285.9	18987.3	26805.6	37974.6	75949.2	127326.6	
*Projectedyearly outputat 1825GHI/year		15357.4	23734.1	33507.0	47468.3	94936.5	159158.3	
	- 1					3-555.5	100100.0	
		Jo rower x peak suns	shine hour/year x derat	e iacioi /(GHI=Giobal	riorizotali radiance)			
SYSTEM OPTION Wifi Monitor				\M/if: a:	CDDS			
PV System Color		Wifi or GPRS						
1 v Oyatem Color		Siliver or Full Black						

Metal Roof Aspht Shingle, Tile roof, Flat Concrete

TBD



Commercial On-Grid Example Layout(20kW)





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.



Packaging Specs

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

10kW

1.8 x 1 x 1 6 kits per 20' 2 pallets per kit 12 kits per 40'



20kW

1.8 x 1 x 1 1 kits per 20' 8 pallets per kit 3 kits per 40'



60kW

1.8 x 1 x 1 20 pallets per kit 1 kit per 40'



15kW

1.8 x 1 x 1 3 kits per 20' 4 pallets per kit 6 kits per 40'



30kW

1.8 x 1 x 1 1 kits per 20' 12 pallets per kit 2 kits per 40'



100kW

1.8 x 1 x 1 20 pallets per kit 1 kit per 40'

