



POWERHUB 405A



POWERHUB 610A

The PowerHub is a family of stand-alone power generation and management systems. The PowerHub is fully integrated, and comes preconfigured with:

- Solar power even when utility power fails
- Power Inverter 4.0-11.0kW, 120/240VAC
- Battery storage + BMS, 5.0-20kWhrs, 48VDC
- Battery charger and solar charge controller
- Built-in AC transfer switch
- Solar Ready 1.0kW to 8kW array
- Connectors for 240V, 50A AC input and output power
- Input for 240V, 30A generator input
- Cloud-based timing control of utility interconnect

The PowerHub is feature rich and a user-friendly system that saves money at installation and for years into the future!

SOLAR POWER WHEN UTILITY IS DOWN

Now solar users can have solar power during utility failure (no batteries required). Systems with batteries provide additional around-the-clock power backup and load time shifting options.

ENERGY STORAGE VERSATILITY

The PowerHub is compatible with multiple battery technologies including AGM or Lithium Iron Phosphate. Battery charging is supported by utility grid and/or solar power.

EASY INSTALLATION

The PowerHub is delivered pre-wired and ready to go. This assures customers do not need to worry about on-site construction, equipment compatibility or initial equipment failure.

TIME-OF-USE (TOU) SHIFTING

The PowerHub significantly reduces energy bills by automatically shifting electrical demand to stored energy during periods when utility rates are highest.

PEAK DEMAND REDUCTION

The PowerHub eliminates expensive peak demand charges by automatically filling electrical load with battery energy when approaching a peak demand threshold.

OFF GRID

The PowerHub operates in grid-tie or standalone modes. This feature allows residential or commercial users to operate completely off grid with solar energy. Emergency power is available without need for noisy generators.

SCALABILITY

The PowerHub is modular and scalable. The unit can easily accommodate additional stored energy, additional renewable energy sources and increased available output power.

ABOUT SUNNYCAL SOLAR

SunnyCal Solar has been providing turn-key solar power systems for more than a decade. From our production facility in Central California, we ship direct to customer sites, and have a network of trained installation contractors.

Find out more





System Parameters

Function	Parameter	Values	Comment
Inverter	Output Power	4.0-11.0kWac	Determined by selection of inverter power Up to 2 inverters per system
	Output Voltage	120/240vAC	
	Output Current	17-44A	
	Input/Output Connectors	Utility Tie-in (4) Invert Output to House 120Vac receptacle	Back feed 44A, 60A load 50A max 20A max
	Performance modes	Off Grid Grid Interactive Power Shaving Time-of-Use utility disconnect	Adjustable by WiFi-Cloud
	Approvals	UL1741, CEC, UL	4kW offgrid sys is not UL listed
AC Charger	Charging Current	0-100A	Defined by control panel Charge time is user definable
Battery	Voltage Rating	>5kW=48V, 4kW =24V	
	Storage Capacity	5kWhr-20kWhr	Units with no battery storage include 1.4kWhr default battery
	Type	200Ahr 155Ahr	LiFePo AGM Lead-Acid
Solar Charger	Model options	3840W, 80A, 48V 500V PV Strings (Voc max)	1 pair MC4 per unit 2 pairs max
		2880W, 60A, 48V 150V PV Strings (Voc max)	1 pair MC4 connectors per string (Optional combiner box required for more than 2 pairs)
Control Panel	LCD display	Inverter & Charging settings	Cat-5 Cable
	Status Display	Input and Output levels	Voltage and Current
	Programmable set points	Charge and discharge Peak Shaving Charge times Generator start/stop	
Generator Interface	Input Receptacle	Input voltage 240Vac	30A max, neutral required
	Control options	2-wire, 3-wire, preheat	5 Pin flat cable connector
Housing	Enclosure rating	Black powder coat	Nema 1
	Weight	300-800lbs	Varies based on options
	Form Factor	24" x 20" x 82" (WxDxH)	Floor resting or roller casters
Warranty	5.5 & 6.8kW Inverters	5 Years	
	Solar Chargers	5 Years	
	4kW Inverters	1 Year	

Manufacturer reserves the right to make changes to reflect updates or corrections. Rev 3d