

# Shade Cover for CPS Three-phase String Inverters

## Why consider a shade cover?

Our shade cover is design and manufactured by CPS specifically for use with our 23, 28, 36, 50 and 60kW string inverters. The covers help protect the inverter in harsh weather conditions (snow, ice) and reduces the thermal gain caused by direct sunlight. Depending on the application and environment, shade covers will help to increase energy production by reducing potential power derating due to excessive ambient temperatures. Inverters derate in extreme temperatures in order to protect themselves from over temperature conditions.

## Key Features

- Increase energy harvest by reducing inverter temperature clipping in high temp environments.
- Designed to mount directly to the inverter.
- Lay flat shipping design reduces packaging waste and improves handling at the job site.
- Easy to install - four fasteners with hand tools.
- Easy access to the wire-box and LCD screen WITHOUT removing the shade cover.
- Field testing at PVEL showed up to 15% reduction in operating temperatures of inverters with shade covers installed in direct sunlight.
- Shade covers can also serve to deter tampering in public places.
- Covered under the 2 year CPS Accessory Warranty.

**Easy to install**



50/60kW Inverter with Shade Cover

**4 fasteners**



**Easily Access LED Screen & Controls**

**Easily Access Wire Box with Shade Cover On**



### Performance Evaluations

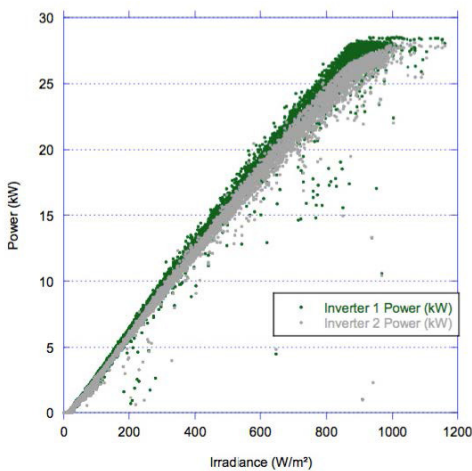
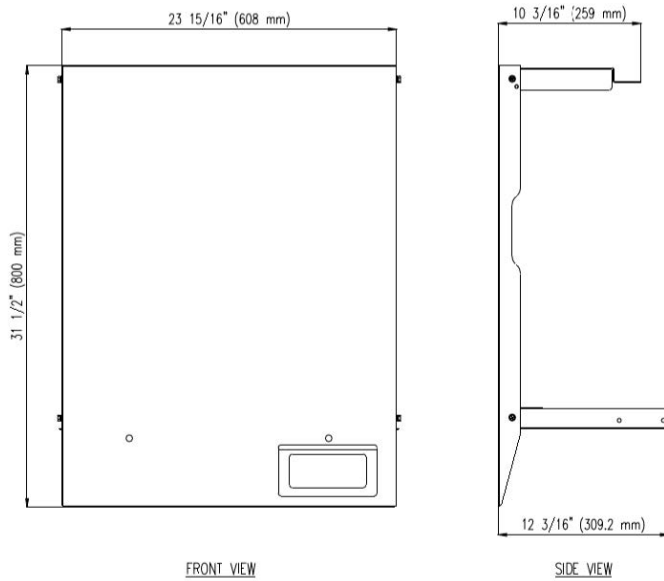
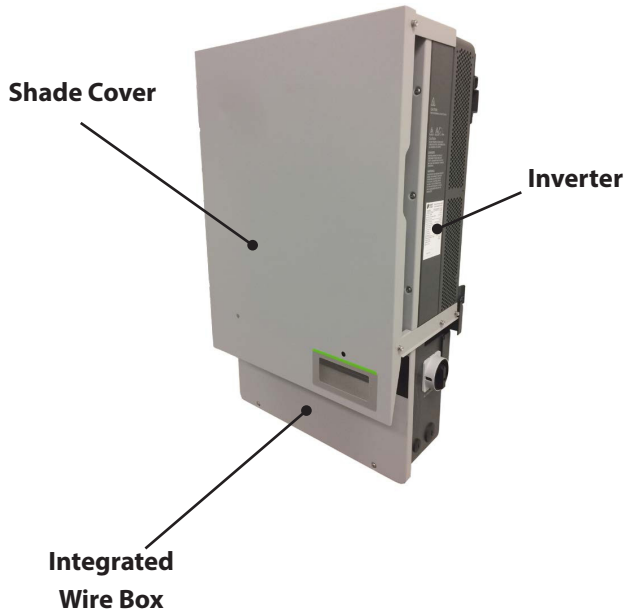


Figure 3 Plot of AC output power versus irradiance for both inverters over the Test Period

# Shade Cover for CPS Three-phase String Inverters

## Model SHADE-23/28/36-US

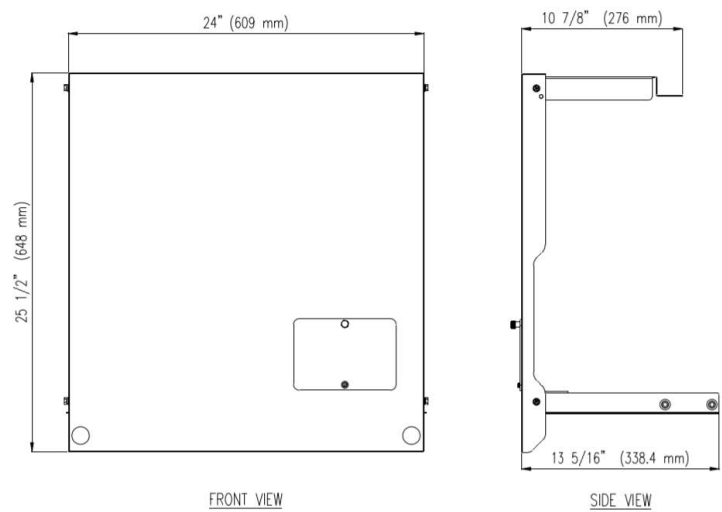
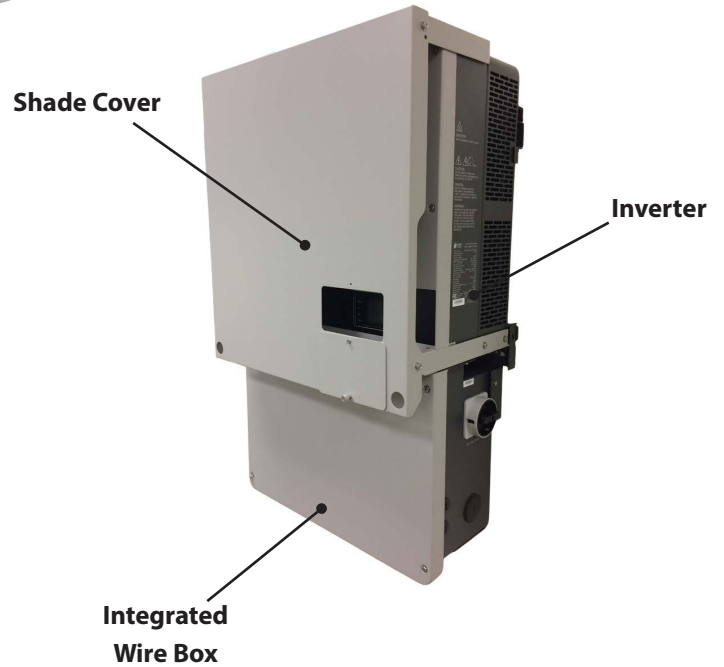
Fits CPS Inverters 23/28/36kW



2  
Models

## Model SHADE-50/60-US

Fits CPS Inverters 25kW 208V & 50/60kW



### Optional for Vertical Installations

- Shade covers are optional for CPS inverters installed vertically\*
- For example, a wall or pile-mounted inverter installed in direct sunlight would not require a shade cover

### Required for Angled Installations

- Shade covers are required for CPS inverters installed at an angle and in direct sunlight
- For example, a CPS inverter installed on a 15° tilted rack in direct sunlight would require a shade cover

\*Refer to inverter manual for details or contact the CPS team

