



Manzanita Micro P3 EVSE

Owner's Manual Revision 0.2

The Manzanita Micro P3 (Personal Power Port) EVSE was designed to be a rugged, high quality, affordable EVSE (electric vehicle supply equipment) option allowing for quick and easy installation. The P3 EVSE is designed to work with any current OEM electric vehicle that uses the SAE J1772™ protocol.

The beauty of the P3 is in its simple robust architecture. The unit does not need to be hardwired, rather users can have their electrician install a standard NEMA receptacle in the wall. The P3 is then mounted to the wall using suitable fasteners through the 2 mounting holes at the base. Simply plug the P3 into the wall receptacle and it is ready to use. The unit is constructed to be water resistant but intended to be mounted under cover such as in a garage or car port.

The P3 is a conductive EVSE charging station which follows the industry standard J1772™ protocol. To use the P3 simply plug the J1772™ handle into the J1772™ inlet on the electric vehicle or plug-in hybrid vehicle. The P3 should close its internal relay and provide AC power to the vehicle within a few seconds.

The P3 has 3 LED indicators:

Green : “EVSE Input Power present” The faster the blink rate, the more amps are flowing.

Yellow : “Relay Closed / Power present at vehicle handle connector”

Red : “Warning / Fault Condition” this will illuminate in an over-current situation

The standard P3 is designed to provide up to 30 amps output meaning it can handle up to 7,200 watts of power when wired to a 240VAC source. It will also be able to provide up to 30A from a 120VAC source allowing you to plug into 30A 120V RV outlets when 240V power is not available.

INSTALLATION

The P3 is one of the easiest EVSE units to install and it is ready to be plugged in and operate right out of the box. If you already have a suitable outlet available you can plug the P3 right into it and the green LED should illuminate letting you know that it is powered up. If you do not yet have a suitable outlet you must have one installed. Have a knowledgeable electrician put in the appropriate wall mount receptacle for your P3. Manzanita Micro recommends having a 50A outlet put in with a 50A circuit breaker. Even if your P3 is only set up to draw a maximum of 40A the cost for a 50A breaker vs a 40A breaker is usually not that much and a 50A breaker will be more ready for the future if you get a higher power charger.

***NOTE:** Manzanita Micro provides all electrical information as educational information and cannot possibly know every unique electrical situation. Therefore, it is up to the end user to make sure that their installation meets all applicable codes, rules and regulations and does not burden the circuit breaker panel.

Check with a certified electrician or electrical inspector to make sure that installing a 50 amp receptacle is okay for your unique situation. P3 models come standard with a 6-50 NEMA plug on a cord. This is the same plug used all over the United States for welding outlets and other industrial equipment. Make sure to install the appropriate receptacle for your P3 unit. Position the P3 backing plate flat against the wall as pictured below and at least 40 inches above the floor. Mark two holes for the backing plate and then fasten it using just two fasteners suitable for whatever surface the unit is being mounted to. Once the backing plate is securely mounted, line up the P3 and slide it downward until it is securely held to the backing plate. The P3 can easily be removed and stowed in your electric vehicle if you wish to take it with you on a long trip. The P3 is available in three models shown below:

