

# HVPVCB-250WxxxV<sup>®</sup>

## SOLAR PANEL HIGH VOLTAGE CONVERTOR UNIT



- Easy to install
- MC4 direct connection
- Efficient PV to High Voltage
- Long life design
- 265W maximum Input
- HV output follows PV characteristics for MPPT use
- Unlimited units can be placed in parallel to increase power
- P65 cable and connector provided for external connection

### Another product from the Usedasun<sup>®</sup> range.

This converter uses a microprocessor to control the PV panel power to a high voltage power through an efficient process to reduce losses to a minimum. The conversion process closely follows the PV output, ensuring that any MPPT equipment connected to the system will be able to function as though you have a string of PV panels connected in series.

One of the advantages of using a high voltage output is the reduced losses and the saving in cable wire size in the transmission of the power to your MPPT controller.

Multiple converters may be placed in parallel to increase power to your system. This allows simple modification to your total system, where you can start small, and as you can afford it simply add more converters in parallel to increase the system power.

Since each PV panel has it's own converter, any malfunction, or shadow effect on the one panel in the array, will not affect the system as a typical multiple series connected PV system would be affected. This characteristic increases the efficiency of your total PV array, reducing costs.

Various models are available to suit your requirements. Other models may be designed if required if not in our range, simply contact the factory for more details.

## **HVPVCB-xxxV® Technical specifications**

### **Specifications**

#### **PVHV-250W200V**

##### **PV Input**

PV Input Supply Voltage . . . . . 0 – 40V D.C.  
Maximum PV Current at full power. . . . . 9.0A D.C.  
Maximum PV Panel Rating . . . . . 265W  
PVHV range . . . . . 0-266V  
PV MPPT range . . . . . 27 – 32V DC  
PVHV MPPT Output range . . . . . 180V – 215V  
Maximum PVHV current . . . . . 1.2A D.C.

#### **PVHV- 250W300V**

##### **PV Input**

PV Input Supply Voltage . . . . . 0 – 40V D.C.  
Maximum PV Current at full power. . . . . 9.0A D.C.  
Maximum PV Panel Rating . . . . . 265W  
PVHV range . . . . . 0-405V  
PV MPPT range . . . . . 27 – 32V DC  
PVHV MPPT Output range . . . . . 270V – 320V  
Maximum PVHV current . . . . . 0.8A D.C.

#### **PVHV- 250W440V**

##### **PV Input**

PV Input Supply Voltage . . . . . 0 – 40V D.C.  
Maximum PV Current at full power. . . . . 9.0A D.C.  
Maximum PV Panel Rating . . . . . 265W  
PVHV range . . . . . 0-580V  
PV MPPT range . . . . . 27 – 32V DC  
PVHV MPPT Output range . . . . . 396V – 469V  
Maximum PVHV current . . . . . 0.55A D.C.

#### **CONTACT DETAILS:**

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