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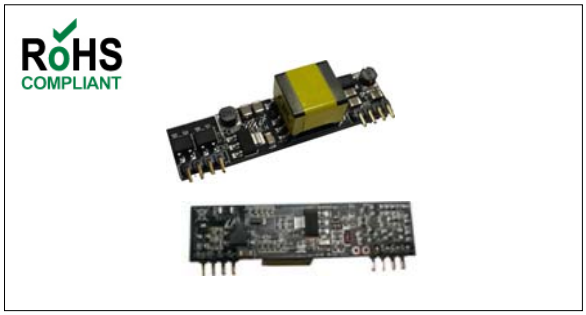
TW-C100PV(S)

Power Over Ethernet Module for CCTV



- IEEE802.3af Compliant
- Input voltage range: 36V ~ 57V
- Short-circuit protection
- Adjustable Output
- Pb free and RoHS compliant
- **Power Classification: Class0**

This PSU accepts PoE(IEEE802.3af) input. As it use RCC(Ringing Choke Converter) type SMPS which is operated by variable frequency. Within this input power, its output can meet +12V and 12W(Typ.) power can be supported. It includes compensation circuit board to avoid the case like short-circuit of main unit and short of this PSU. By this circuit board architecture, it prevents fire and smoke of power itself.

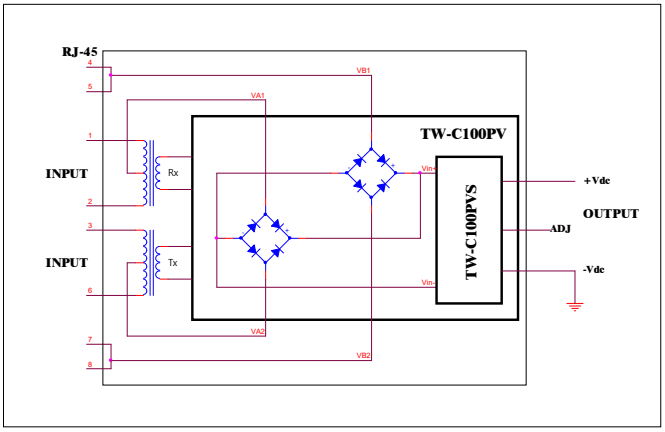
The TW-C100PV series of modules are designed to extract power from a conventional twisted pair Category 5 Ethernet cable, conforming to the IEEE 802.3af Power-over-Ethernet (PoE) standard.

■ Product Line-up

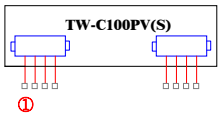
Model No.	Output Voltage (typ.)	Output Power (Max.)	Remark
TW-C100PV	12.0V	12W	
TW-C100PVS	12.0V	12W	Note1)

Note1) It does not have the two input bridge rectifiers

■ Block Diagram



■ Pin Description



➢ **TW-C100PV**

Pin No.	Name	Description
1	VA1	**Rx Input;** This input pin is used in conjunction with VA2 and connects to the center tap of the transformer connected to pins 1 & 2 of the RJ45 connector(Rx) - it is not polarity sensitive.
2	VA2	**Tx Input;** This input pin is used in conjunction with VA1 and connects to the center tap of the transformer connected to pins 3 & 6 of the RJ45 connector(Tx) - it is not polarity sensitive.
3	VB1	**Direct Input(1);** This input pin is used in conjunction with VB2 and connects to pin 4 & 5 of the RJ45 connector - it is not polarity sensitive.
4	VB2	**Direct Input(2);** This input pin is used in conjunction with VB1 and connects to pin 7 & 8 of the RJ45 connector - it is not polarity sensitive.
5	-VDC	**DC Return;** This pin is the return path for the +VDC output
6	+VDC	**DC Output;** This pin provides the regulated output from the DC/DC converter
7	ADJ	**Output Adjust;** The output voltage can be adjusted form is nominal value, by connecting an external resistor from this pin to either the +VDC pin or the -VDC pin.
8	GND	**GND**

➢ **TW-C100PVS**

Pin No.	Name	Description
1,3	Vin+	**Direct Input+;** This pin connects to the positive(+) output of the input bridge rectifiers (internally connected Pin1 to Pin3)
2,4	Vin-	**Direct Input-;** This pin connects to the negative(-) output of the input bridge rectifiers (internally connected Pin2 to Pin4)
5	-Vdc	**DC Return;** This pin is shorted with GND
6	+Vdc	**DC Output;** This pin provides the regulated output from the DC/DC converter
7	ADJ	**Output Adjust;** The output voltage can be adjusted form is nominal value, by connecting an external resistor from this pin to either the +Vdc pin or the -Vdc pin.
8	GND	**GND**

■ Power Classification

To minimize cost, the TW-C100PV(S) is fixed for Class 0 (0.44 Watts to 12.95 Watts) operation, however class programmable versions are available on request.

■ Dimension

Unit: mm