

# **HiTRON**

## **DC/DC WIDER INPUT 12-24VDC CONVERTER PLUG-IN CAR ADAPTER SINGLE OUTPUT 12 WATTS MODEL NO. HCD12 SERIES**



### **FEATURES:**

- **CIGARETTE-LIGHTER SOCKET PLUG-IN CAR ADAPTER**
- **COMPACT & IMPACT RESISTANT THERMOPLASTIC ENCLOSURE CASE**
- **HIGH EFFICIENCY BUCK CONVERTER**
- **NOISE & RIPPLE LESS THAN 1% PEAK TO PEAK**

### **SPECIFICATION**

#### **INPUT SPECIFICATION**

**Input Voltage:** Nominal 12Vdc and 24Vdc.  
**Input Voltage Range:** 12-26.0Vdc or 19-26.0Vdc.  
**Input Connector:** Car cigarette lighter plug.  
**Input Frequency:** DC only.  
**Dielectric Withstand:** Non-isolation.  
**OVP:** Non.  
**Overload Protection (OLP):** Non.

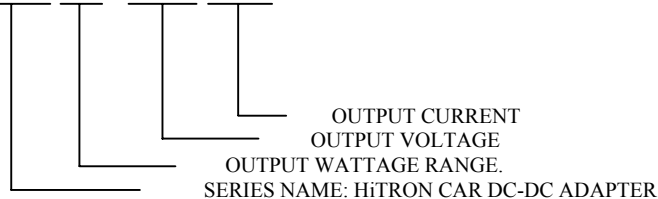
#### **OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 12 Watts typical.  
**Output Connector:** Optional.  
**Output Indicator:** Green LED.  
**Line Regulation:** 0.5% typical.  
**Load Regulation:** ±3-5.0% typical (depends upon output load current & selected cord length/AWG #.)  
**Noise & Ripple:** 1.0% typical peak to peak.

#### **GENERAL SPECIFICATION**

**Efficiency:** 78-82% typical.  
**Switching Frequency:** Typ. 40KHz at full load.  
**Circuit Topology:** Buck converter circuit.  
**Format:** Car cigarette plug.  
**Operating Temperature:** 0 to +50°C.  
**Storage Temperature:** -20 to +85°C.  
**Cooling:** Free air convection.  
**Construction:** Plastic enclosure case.

### **MODEL NO. DESCRIPTION: HCD 12 - XXX YYY**



Due to requests in market and advances in technology, specifications subject to change without notice.

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

Model No. for Example

MODEL NO.	INPUT VOLTAGE (Vdc)	Volt. (V)	OUTPUT Amp. (A)	Watts (W)
HCD12-033250	12-24Vdc	3.3Vdc	2.50A	8.25W
HCD12-055200	12-24Vdc	5.5Vdc	2.00A	11.00W
HCD12-060200	12-24Vdc	6.0Vdc	2.00A	12.00W
HCD12-085142	12-24Vdc	8.5Vdc	1.42A	12.00W
HCD12-090135	12-24Vdc	9.0Vdc	1.35A	12.00W
HCD12-120100	12-24Vdc	12.0Vdc	1.00A	12.00W
HCD12-180070	12-24Vdc	18.0Vdc	0.70A	12.50W

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 65.0g (2.29 Oz.)**

