

# DC-DC Power Supplies

## VDN 60 SERIES (60 WATTS DC-DC CAR and FLIGHT ADAPTER)

### Features

Input plug for car cigarette receptacle and new with aircraft plug  
 (Order suffix: VDN60....F)  
 Wide range DC input 10.7-28VDC  
 Interchangeable DC output cable\* for different application  
 Adjustable output voltage & current  
 Constant current output built-in  
 Fully enclosed plastic case  
 Fully regulated output  
 High efficiency; High Quality



### Electrical specifications

#### Input

Voltage ..... 10.7-28VDC (wide range)  
 Current ..... 6.5Arms Max. @12VDC I/P  
 Fuse ..... 8A

#### Output

Voltage (Vo) ..... (see table)  
 Tolerance ..... 5%  
 Power (Po) ..... 60W Max.  
 Voltage adjust range ..... 15-24VDC  
 Current limit range (Io) ... 2.1-4.2A (adjustable)  
 Overcurrent protection ... Constant current type  
 Short circuit protection ... Built-in  
 Over temp protection ..... Built-in  
 Efficiency ..... 85% typ. at full load and 12VDC I/P  
 Ripple/Noise(Vp-p) ..... 1% Max. (20MHz bandwidth)

### Environmental

#### Operating temperature

0 deg. C to +40 deg. C ambient

#### Storage temperature

-20 deg. C to +80 deg. C ambient

### EMI

Meet ..... CISPR 22  
 Air discharge ..... 15kV  
 Contact discharge ..... 3kV

### Safety

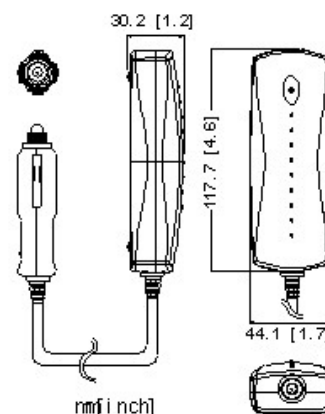
UL: UL 2089  
 CE: EN 60950  
 E1: (E13 Luxembourg) **E13**



### Output Electronic Specifications

Model No.	Po	Vo	Io max
VDN60-1500	60W	15V	4.0A
VDN60-1600	60W	16V	3.75A
VDN60-1800	60W	18V	3.35A
VDN60-1900	60W	19V	3.16A
VDN60-2000	60W	20V	3.0A
VDN60-2200	60W	22V	2.73A
VDN60-2400	60W	24V	2.5A

\*Output cable please refer to output cable diagram.



### Power Systems – The Power Solution

Web: [www.Power-Systems.de](http://www.Power-Systems.de)  
 Email: [Info@Power-Systems.de](mailto:Info@Power-Systems.de)

Address: Dörnet 8 ; 74360 Ilsfeld-Auenstein / Germany  
 Tel. : + 49 / 70 62 / 67 59 - 6  
 Fax: + 49 / 70 62 / 67 59 - 80

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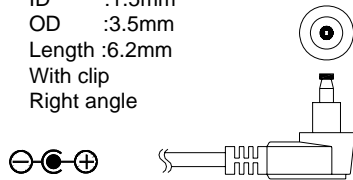
### Cable Series:

**C101**



**Plug Spec:**

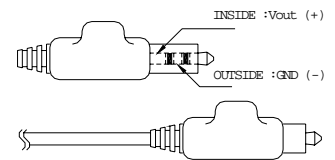
ID :1.5mm  
OD :3.5mm  
Length :6.2mm  
With clip  
Right angle



**C106**



**Plug Spec:**

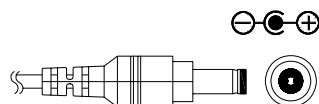


**C102**



**Plug Spec:**

ID :2.0mm  
OD :5.5mm  
Length :12mm  
With clip

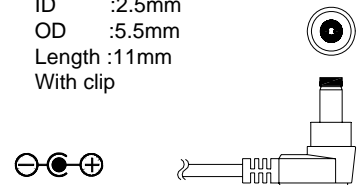


**C107**



**Plug Spec:**

ID :2.5mm  
OD :5.5mm  
Length :11mm  
With clip

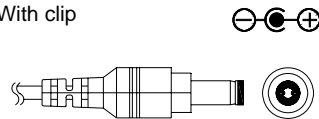


**C103**



**Plug Spec:**

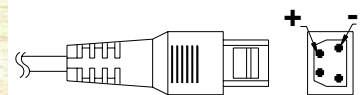
ID :2.5mm  
OD :5.5mm  
Length :12mm  
With clip



**C108**



**Plug Spec:**

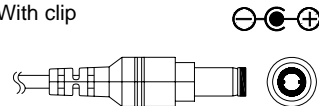


**C104**



**Plug Spec:**

ID :2.8mm  
OD :6.6mm  
Length :12mm  
With clip

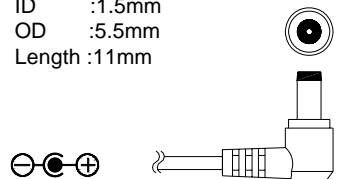


**C109**



**Plug Spec:**

ID :1.5mm  
OD :5.5mm  
Length :11mm

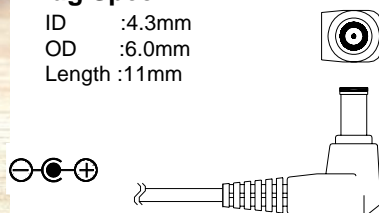


**C105**



**Plug Spec:**

ID :4.3mm  
OD :6.0mm  
Length :11mm

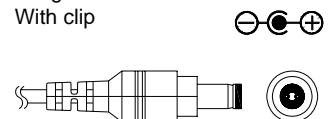


**C110**



**Plug Spec:**

ID :2.0mm  
OD :5.5mm  
Length :10mm  
With clip



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