

**Technical Specifications**

**Input:**

Normal operating input voltage range: 7.5V to 32V DC  
 Peak input voltage range: 6.5V to 36V DC (less than 10 Sec at 50% duty cycle repetition)  
 Idle state power consumption: 2.5mA (Loads at OFF state)  
 Input Power Mating connector: Plug: Molex: 39-01-2060; 2 x 6 Mini Foot Jr.  
 Input Protection: LC Pi filter and Transient protection  
 Input Fuse: 25A mini blade (Automotive mini blade fuse)  
 Input Power mating connector: Plug: Molex: P/N: 39-01-4030  
 Crimps: Molex: P/N: 30490-2012

**Output:  
DCA 17**

	<b>Output</b>	<b>Ripple</b>	<b>Line + Load Regulation</b>
+12 to 19V :	90W	100mv p-p max	1.5%
Output voltage selected by 2x3 Jumper jumper block			
+5 V:	18A max, 22A pk	50mv p-p max	1%
+5 V standby:	1 A max, 2.5 A pk	50mv p-p max	1%

Power supplies overall efficiency: > 92% for 12V system and 86% for 24V system at 10% to 90% of full Load  
**Note:** Power supply output is derated by 30% for 24V system use  
 Transient Response: 5uS to steady-state output voltage (with in 0.2% of Vout) for 10- 90% load change  
 Output Stability: 0.1% of Vout after 10 minute warm-up  
 Output Power mating connector: Plug: Molex: 39-01-2080; 2 x 4 Mini Foot Jr.  
 Power switch mating connector: Plug: Molex: 22-01-3027; 2 pin polarized locking conn.

**General**

Shut Down Delay Time: 10 sec. (Default), 5min, 10 min, 15min, 30 min, 45min, 60min or 120min (set by Jumper)  
 Start-up Voltage: 9.5V, 10.5V, 12.5V or 12.0V ± 0.25V (Jumper selectable)  
 Low battery shutdown voltage: 8.5V, 9.5V, 10.5V or 11V ± 0.25V  
 Low battery detection duration: 10 Sec.  
 Wake on interrupt operation time: 20 minutes (while Ignition is Off)  
 Ignition or ON/OFF input current: <5 mA  
 MTBF: 300,000 hrs min.  
 Cooling: Forced air or thermal coupling to heat sink for loads above 120 W.  
 Operating Temperature Range: -20°C to 65°C  
 External Dimensions  
 DC-DC PCB Module dimensions: 160mm (L) x 70mm (w) x 16mm (H)  
 6.3" x 2.75" x 0.63"  
 Weight: 130 Grams, 0.3 lb (PCB module only)

**Ordering Information**

Part Number	Description
DCA17.180-V	180W, intelligent Vehicle DC-DC power supply with Vertical connectors

**OPUS Solutions, Inc.** - CA 92618 - Tel: 949-387-1010 - [sales@opussolutions.com](mailto:sales@opussolutions.com) - [www.opussolutions.com](http://www.opussolutions.com)