

# R22095, R22096



## Single Output Conduction Cooled Power Supplies

- ◆ Universal Input
- ◆ Baseplate cooled
- ◆ No fan required
- ◆ High Efficiency
- ◆ Conformal coated

**RoHS**

### Key Market Segments & Applications

Outdoor Electronics                      LED Signage  
COTS

### Features & Benefits

Feature	Benefit
◆ Fanless	◆ Longer Field Life
◆ Baseplate cooled	◆ Conduct heat outside of the system
◆ Wide range AC Input	◆ Supports global use

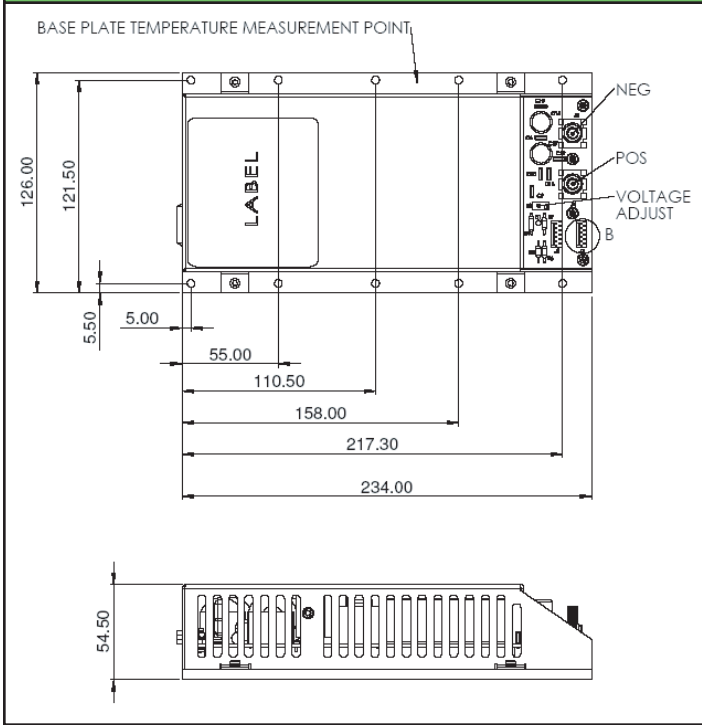
### Specifications

MODELS		R22095	R22096
ITEMS			
Nominal Voltage	V	12V	28V
Output Current	A	33A	16.5A
Output Voltage Adjustment	V	10 - 14V	22.4 - 33.6V
Output Power	W	396W	400W
Line Regulation	mV		50mV
Load Regulation	mV		50mV
Ripple & Noise	mV		120mV
Input Voltage range	-	90 - 264VAC (47 - 63Hz)	
Input Current (Maximum)	A	6.2A	
Inrush Current	A	40A	
Efficiency (200VAC Input)	%	83%	
Power Factor	-	Meets EN61000-3-2	
Temperature Coefficient	-	<0.01%/°C	
Overcurrent Protection	-	105 - 155% of nominal	
Overvoltage Protection	V	125 - 145% (Recycle AC to reset)	
Overtemperature	°C	Shuts down between 90 - 115°C with automatic recovery	
Hold Up Time (230VAC)	ms	25	
Leakage Current (at 230VAC, 50Hz)	uA	< 1.3mA	
Remote Sense	-	Yes, compensates up to 500mV cable drop	
Operating Temperature (Base plate)	-	-20°C to +80°C (See note 1)	
Storage Temperature	°C	-25 to +85°C	
Humidity	-	Operating: 10 - 90%RH, Non operating 10 - 95%RH (PCB assembly conformally coated)	
Cooling	-	Conduction cooled through 6mm base plate	
Withstand Voltage	-	Input to Output 3kVAC, Input to Ground 2.5kVAC, Output to ground 500VDC	
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6m/s <sup>2</sup> constant X, Y, Z 1 hour	
Shock	-	< 196.1 m/s <sup>2</sup>	
Safety Agency Approvals	-	UL60950-1, EN60950-1, CE Mark	
Line Dip	-	Complies with SEMI F47 (200VAC line only)	
Conducted & Radiated EMI	-	Conducted: EN55022, Class B, Radiated: Class A	
Immunity	-	IEC61000-4-2, -3, -4, -5, -6, -8, -11	
Weight (Typ)	g	1,210g	
Size (L x W x D)	mm	238 x 126 x 55mm (9.37 x 5 x 2.16")	
Connectors	-	-	
Warranty	yr	3 years	

(1) Maximum continuous component temperatures: C11, C12: 68°C, C16, C17: 86°C. Ambient temperature: -20°C to +50°C.

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## Outline Drawing



For Additional Information, please visit [us.tdk-lambda.com/lp/products/bpc-series.htm](http://us.tdk-lambda.com/lp/products/bpc-series.htm)

## Pinout

J2 & J3	Pin functions
1	Not used
2	Not used
3	Trim
4	-ve Sense
5	+ve Sense
6	Not used

### AC Input Connection

Customer side mating connector: Tyco (AMP) 'Mate-n-lok'  
 Housing 3 way 350766-1  
 Crimp terminals 926893-1 (20-14awg) or 926895-1 (24-18awg)

### DC Output Connections

M6 threaded studs. Maximum tightening torque 10Nm

### Control and Monitoring Signals

Parallel linked connections to 2 off 2.54mm pitch headers J2-J3.  
 Customer side mating connector: Molex series 4809  
 Housing 22-01-2065  
 Crimp 08-50-0032 (30 – 22awg)

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