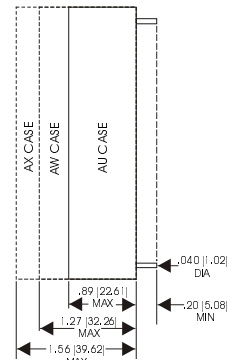
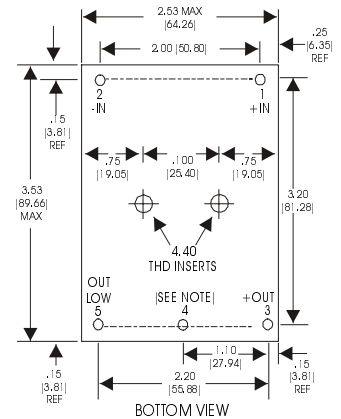


# 15-22 Watt Wide Input Range, Isolated DC-DC Converters / *DCW* Single Output



The DCW series offers a very broad input range for applications requiring high isolation. Output noise and ripple are low, and a high-attenuation filter reduces kickback spikes and reflected ripple from inverter switching. High frequency inverters provide high efficiency, close regulation, and rapid response. Switching elements are selected for the worst-case line, load, and temperature conditions. Since all thermal factors have been expertly engineered, internal temperature rise is minimal. Low thermal masses and thermal gradients allow minimum delay in reaching equilibrium after any change in operating conditions.



Dimensions in inches (mm)

**INPUT: 12, 24, 48 VDC**  
**OUTPUT: 5, 12, 15 VDC**

- **Wide: 2:1 Input Range**
- **High Input/Output Isolation**
- **No Heat Sink Required**
- **Direct PC Board Mounting**
- **Low Output Ripple**

Specifications typical at +25°C	15 WATTS			20 WATTS			20 WATTS			22 WATTS		
	5VDC OUT @3000mA			5VDC OUT @4000mA			12VDC OUT @1700mA			15VDC OUT @1500mA		
<b>MODELS DCW</b>	12/5/3000	24*/5/3000	48/5/3000	12/5/4000	24/5/4000	48/5/4000	12/12/1700	24/12/1700	48/12/1700	12/15/1500	24/15/1500	48/15/1500
Input Voltage	9 to 18VDC	18 to 36VDC	36 to 72VDC	9 to 18VDC	18 to 36VDC	36 to 72VDC	9 to 18VDC	18 to 36VDC	36 to 72VDC	9 to 18VDC	18 to 36VDC	36 to 72VDC
Input Current												
No Load	125mA	100mA	75mA	250mA	130mA	100mA	250mA	130mA	100mA	250mA	130mA	100mA
Full Load	1800mA	900mA	450mA	2500mA	1350mA	675mA	2500mA	1250mA	625mA	2500mA	1250mA	625mA
Input Capacitance	470µF	220µF	100µF	470µF	220µF	100µF	470µF	220µF	100µF	470µF	220µF	100µF
Input/Output Isolation	10 <sup>10</sup> Ω    100pF 300VDC			10 <sup>10</sup> Ω    250pF 300VDC			10 <sup>10</sup> Ω    470pF 300VDC			10 <sup>10</sup> Ω    540pF 300VDC		
Output Voltage	5VDC ± 1%			5VDC ± 1%			12VDC ± 1%			15VDC ± 1%		
Output Current at F.L.	3000mA			4000mA			17000mA			15000mA		
Output Ripple	7.0mV rms			7.0mV rms			7.0mV rms			7.0mV rms		
Reflected Input Ripple Current Max.	10 % of F.L. Input Current Peak-Peak											
Regulation												
Line	.5% max			.5% max			.5% max			.5% max		
Load	1% max			1% max			1% max			1% max		
Vs. Temperature	0.02%/°C			0.02%/°C			0.02%/°C			0.02%/°C		
Short Circuit Protection Duration	Indefinite			Indefinite			Indefinite			Indefinite		
Temperature Range												
Operating, No Load	-25°C to + 85°C			-25°C to + 85°C			-25°C to + 85°C			-25°C to + 85°C		
Operating, 100% Load	-25°C to + 71°C			-25°C to + 60°C			-25°C to + 60°C			-25°C to + 60°C		
Storage	-25°C to + 85°C			-25°C to + 85°C			-25°C to + 85°C			-25°C to + 85°C		
Case Temperature Rise @ 100% Load	+25°C			+25°C			+45°C			+45°C		
Case Material	Phenolic			Phenolic			Phenolic			Phenolic		
Mating Socket	S106 Socket			S106 Socket			S106 Socket			S106 Socket		
Case Size	AW			AX			AW			AW		
Case Weight	18oz			18oz			18oz			18oz		

Also available in 22-44VDC input (36V nominal). Consult factory.  
For applications requiring closer preset accuracy, please consult factory.

