

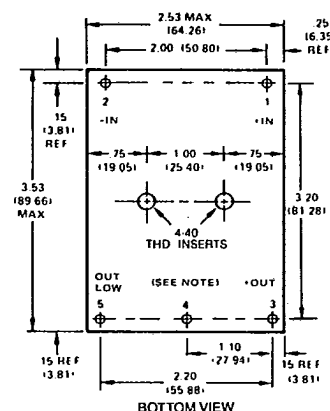
15–22 Watt Wide Input Range, Isolated DC-DC Converters/^{DCW}_{Single Output}



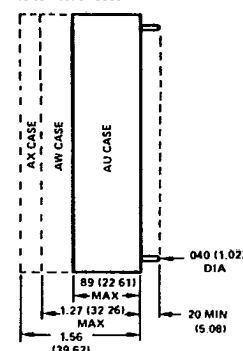
The DCW series offers a very broad input range for applications requiring high isolation. Output noise and ripple are low, and a high-attenuation filter reduces kickback spikes and reflected ripple from inverter switching. High frequency inverters provide high efficiency, close regulation, and rapid 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.

INPUT: 12,24, 48VDC
OUTPUT: 5.12. 15VDC

- **Wide: 2:1 Input Range**
- **High Input/Output Isolation**
- **No Heat Sink Required**
- **Direct PC Board Mounting**
- **Low Output Ripple**
- **Output Disable (20W and 22W models only) .**



NOTE Pin 4 = TTL Disable (4000, 1700, 1500)
No connect on 3000



Dimensions in inches (mm)

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
MODELS DCW	12/5/3000 24/15/3000 48/5/3000	12/5/4000 24/15/4000 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 (Nom. Line)				
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 ⁹ Ω 100pF 300VDC	10 ⁹ Ω 250pF 300VDC	10 ⁹ Ω 470pF 300VDC	10 ⁹ Ω 540pF 300VDC
Output Voltage	5VDC ± 1% **	5VDC ± 1% **	12VDC ± 1% **	15VDC ± 1% **
Output Current at F.L.	3000mA	4000mA	1700mA	1500mA
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 Load vs. Temperature	.5% max. 1% max. 0.02%/°C	.5% max. 1% max. 0.02%/°C	.5% max. 1% max. 0.02%/°C	.5% max. 1% max. 0.02%/°C
Short Circuit Protection Duration	Indefinite	Indefinite	Indefinite	Indefinite
Output Disable	N/A	Open collector TTL logic will disable output.		
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 (oz.)	18oz.	20oz.	14oz.	18oz.

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