



# DAC25-FWX Series

# 25 Watt AC/DC Power Supply



**Dual Output**  
 Isolated output 3000VAC  
 Internal Input Filter  
 Up to 80% Efficiency  
 Encapsulated compact size 3" X2"  
 EN62368-1, CE recognized  
 ITE & AC Motor Applications  
 3 year Warranty  
 -DAC25-20: 5V, 5V - DAC25-21: 5V, 24V  
 -DAC25-22:12V,12V - DAC25-23:15V, 15V  
 -DAC25-24: 5V, 12V -DAC25-25: 5V,15V  
 - DAC25-26: 24V, 24V - DAC25-27: 3.3V, 5V



		UNIT		
<b>INPUT</b>	<b>Voltage/Freq</b>	V	Universal Input voltage AC 90V ~ 264V	100~240 VAC 47 ~ 63Hz
	<b>Current Typ. 110V 220V</b>	A		
	<b>Min. Load</b>	-	20%	
	<b>Inrush Current</b>	A	115V 12A (Ta=25°C, Io=100% at cold Start ); 230V 20A (Ta=25°C, Io=100% at cold Start )	
	<b>Line Frequency</b>	Hz	47 ~ 63	Typ. 50/60

		UNIT	DAC25-20FWX	DAC25-21FWX	DAC25-22FWX	DAC25-23FWX
<b>OUTPUT</b>	<b>Nominal Voltage</b>	VDC	+/- 5	+5 /+24	+/- 12	+/- 15
	<b>Efficiency typ</b>	%	75	78	78	80
	<b>Current</b>	A	+/- 2.5	+2.4/+ 0.5	+/- 1.0	+/- 0.8
	<b>Transient Recovery time</b>	us	Vi nom, Io nom = 0.5 Io nom Typ. 1000us			
	<b>Line Regulation</b>	%	+/-1%	+/-1%	+/-1%	+/-1%
	<b>Load Regulation</b>	%	+/-5%	+/-5%	+/-5%	+/-5%
	<b>Ripple Noise 20MHz BW full load</b>	mVp-p	150	100/150	150	150
	<b>Voltage Accuracy</b>	%	5	5	5	5
	<b>Over Load Protection</b>	-	Auto Recovery			
	<b>Short Circuit Protection</b>	-	CONT. Auto Recovery			
	<b>Over Voltage Protection</b>	-	120%-150% rated output Voltage Protection type: Zener diode clamp			



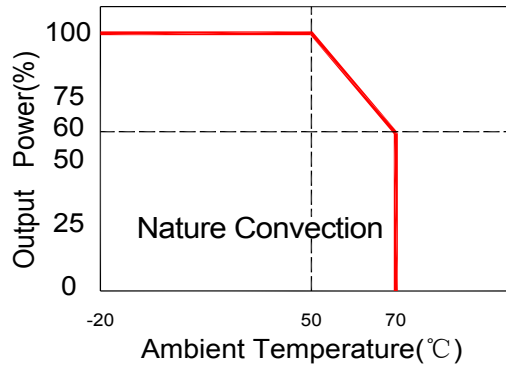


		UNIT	DAC25-24FWX	DAC25-25 FWX	DAC25-26FWX	DAC25-27FWX
<b>OUTPUT</b>	<b>Nominal Voltage</b>	VDC	<b>+5/+12</b>	<b>+5 /+15</b>	<b>+/-24</b>	<b>+3.3 / +5</b>
	<b>Efficiency typ</b>	%	76	76	80	76
	<b>Current</b>	A	+2.4/+1.0	+2.4/+ 0.8	+/- 0.5	2.5 / 1.0
	<b>Transient Recovery time</b>	us	Vi nom, lo nom = 0.5 lo nom Typ. 1000us			
	<b>Line Regulation</b>	%	+/-1%	+/-1%	+/-1%	+/-1%
	<b>Load Regulation</b>	%	+/-5%	+/-5%	+/-5%	+/-5%
	<b>Ripple Noise 20MHz BW full load</b>	mVp-p	150/240	150/240	150	150/240
	<b>Voltage Accuracy</b>	%	5	5	5	5
	<b>Over Load Protection</b>	-	Auto Recovery			
	<b>Short Circuit Protection</b>	-	CONT. Auto Recovery			
<b>Over Voltage Protection</b>		120%-150% rated output Voltage		Protection type: Zener diode clamp		

<b>Isolation</b>	<b>Isolation Voltage</b>	Input / Output 3KVac/ 5mA/5Secs
	<b>Isolation Capacitance</b>	
	<b>Isolation Resistance</b>	Input / Output, @500 Vdc 100MΩ
<b>Environment</b>	<b>Operating Temp/Hum.</b>	-20~ +75
	<b>Storage Temp/Hum.</b>	-40 ~ +85 HUMIDITY 95% 5RH%
	<b>Derating</b>	Vi nom, lo nom+51 to 71°C 2 %/°C
<b>Safety</b>	<b>CE</b>	EN62368-1
	<b>EMI Conduction &amp; Radiation</b>	Compliance to EN55032
	<b>EMS Immunity</b>	Compliance to EN55024
<b>Size</b>	<b>MM</b>	76.2 X 50.8 X 25.4 (mm) 3" X 2" X 1" 112 grams



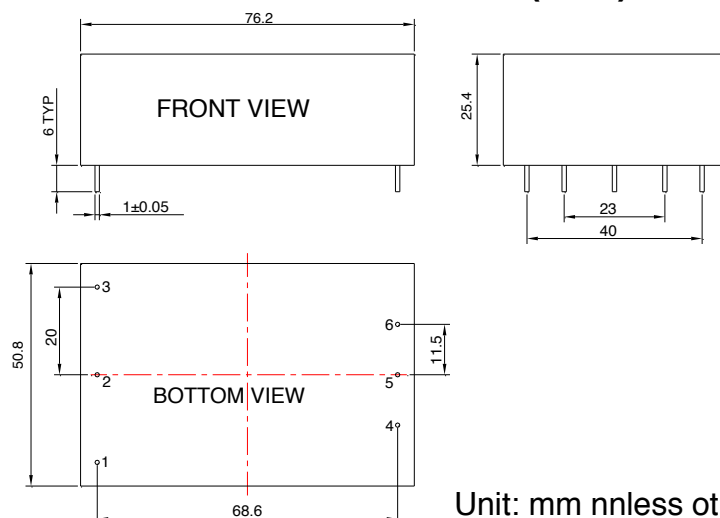
## OUTPUT DERATING CURVE AND RECCOMENDED MOUNTING DIAGRAM



### Terminal Output

PIN	Model		
	Single	Dual	Dual
1	FG	FG	FG
2	ACN	ACN	ACN
3	ACL	ACL	ACL
4	-Vo	-Vo	+Vo2
5	NO PIN	Com	Com
6	+Vo	+Vo	+Vo1

### DIMENSIONAL DRAWING (mm)



Unit: mm unless otherwise specified, all tolerances are  $\pm 0.50$



## BLOCK DIAGRAM

### Dual Output

