

## 364W1-15015-SDB1

120 Watt, isolated, bipolar output push-pull converter

All parameters defined on  $T_a=25^{\circ}\text{C}$ ,  $I_{oNom} = 8,0\text{ ADC}$  and  $U_{iNom} = 80\text{VDC}$

### ABSOLUTE MAXIMUM RATINGS

parameter	unit	typ
Input peak voltage	VDC	170.00
Feedback protection against overvoltage on the output	VDC	36

### THERMAL CHARACTERISTICS

parameter	min to max	typ
Ambient temperature range	$-40^{\circ}\text{C} / +85^{\circ}\text{C}$	
Max. case temperature for thermal shut down [ $^{\circ}\text{C}$ ]		$+90^{\circ}\text{C}$
Storage temperature [device not in operation]	$-10^{\circ}\text{C} / +65^{\circ}\text{C}$	
Relative maximum humidity under storage		75% RH
Storage under worst conditions [in days]		25

### COMMUNICATION INTERFACE

parameter	unit	fulfilled	conditions	min to max
Option shut down [left open for operation]		✓		
Option Switch high [left open for normal operation]		✓		
Output voltage in switch high mode	VDC		$I_{oNom}$	15.5

### SPECIALS

parameter	unit	fulfilled	conditions	typ
Switching frequency	kHz			125
Efficiency at medium loads	%		$0.5I_{oNom}$	89.00
Efficiency at full loads	%		$I_{oNom}$	88.30
MTTF	h		SN29500 @ $70^{\circ}$	1 600 000
For active loads or parallel connection		✓		
Drives high capacitive loads		✓		
Coupling capacitance input to output	nF			transformer winding only
Insulation strength primary to secondary	VDC			2100

All technical and general information is provided in all conscience. However, completeness and accuracy cannot be guaranteed. Demke recommends to fully test the product in its determined application. Due to permanent improvements to our products, we reserve the right to change specifications at any time and without prior notification and without obligation to update products already supplied. This is a component for professional equipment manufacturers. Read the safety and installation instruction for proper use. Safety aspect and EMC-aspect must be considered in the end application.

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### INPUT

parameter	unit	conditions	min	typ	max
Input voltage range	VDC	IoNom	16	80	160
No load input current	mA	UiNom		25	
Max. input current	A	UiNom		8	
Input start up voltage	VDC	UiNom		16.6	
Undervoltage lockout	VDC	UiNom		15.4	
Input quiescent current in shutdown mode	mA	UiNom		4.80	

### OUTPUT

parameter	unit	conditions	min	typ	max
Bipolar output voltage	VDC	IoNom		+/- 15	
No Load output voltage increase	%	UiNom		4	
Minimum required load to obtain the specified output voltage	%	UiNom		0	
Output voltage accuracy	%	IoNom		+/-2,00%	
Output voltage overshoot at initial switch-on	%	IoNom		overdamped	
Rated output power	W			120	

### CONTROL

parameter	unit	conditions	min	typ	max
Maximum admissible capacitive load	uF	IoNom		infinite	

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### MECHANICAL parameter

parameter	unit	
Overall dimensions	mm	90x90x26
Weight	g	325

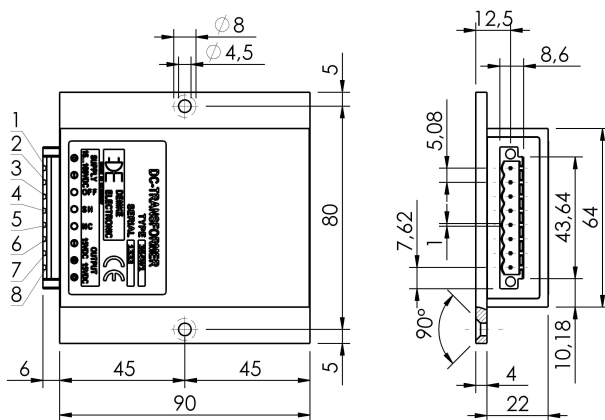
Pin No.	Function	Electrical Determination
1	Vi+	Input voltage positive
2	Vi-	Input voltage negative
3	SD	Shut down
4	SH	Switch high
5	NC	Not connected
6	Vo-	Output voltage negative
7	GO	Output voltage common
8	Vo+	Output voltage positive

### Mechanical dimensions and Pin configuration

All dimensions in mm

Connector type: CC 2,5/8-GF-5,08 P26THR

Case: 90x90x26



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