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134WE-12

25 Watt, non isolated, single output buck converter

All parameters defined on Ta=25°C, IoNom = 2.0 ADC and UiNom = 110VDC

ABSOLUTE MAXIMUM RATINGS

parameter	unit	typ
Input peak voltage	VDC	170.00
Feedback protection against overvoltage on the output	VDC	16
Worst case output voltage in fault mode	VDC	23
Output overvoltage protection	VDC	16.0

THERMAL CHARACTERISTICS

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

SPECIALS

parameter	unit	fulfilled	conditions	typ
Switching frequency	kHz			140
Efficiency at medium loads	%		0.5loNom	93.00
Efficiency at full loads	%		loNom	92.00
For active loads or parallel connection		✓		
Drives high capacitive loads		✓		
CC/CV battery load characteristic		✓		

COMPLIANCE

fulfilled	notes
✓	
✓	
✓	
✓	
✓	
✓	
✓	
<u> </u>	
	fulfilled / / / / / / / / / / / / /

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.



ELECTRICAL SPECIFICATIONS

TECHNICAL DATASHEET

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INPUT

parameter	unit	conditions	min	typ	max
Input voltage range	VDC	loNom	16	110	160
Max. input current	Α	UiNom		2	
Input start up voltage	VDC	UiNom		15	
Undervoltage lockout	VDC	UiNom		14	

OUTPUT

parameter	unit	conditions	min typ max
Output voltage	VDC	loNom	12.0
Minimum required load to obtain the specified output voltage	%	UiNom	0
Output voltage accuracy	%	loNom	+/-2.00%
Output voltage overshoot at initial switch-on	%	loNom	overdamped
Rated output power	W		25

CONTROL

parameter	unit	conditions	min typ max
Maximum admissible capacitive load	uF	IoNom	infinite
Initial switch on time	ms	IoNom	10
Softstart ramp up time	ms	IoNom	5
Restart time after undervoltage lockout	ms	loNom	50

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25 Watt, non isolated, single output buck converter

MECHANICAL

parameter	unit		
Dimensions	mm	77x52x19	
Weight	g	165	

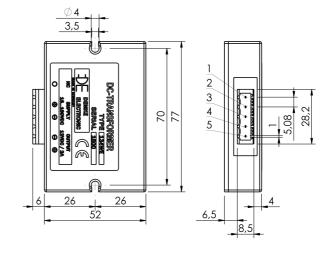
Pin No.	Function	Electrical Determination
1	SD	Shut down
2	Vi+	Input voltage positive
3	Vi-	Input voltage negative
4	Vo-	Output voltage negative
5	Vo+	Output voltage positive

Mechanical dimensions and Pin confirguration

All dimensions in mm

Connector type: CCA 2,5/5-G-5,08 P26THR

Case: FMC 77x52x19



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