# **TECHNICAL DATASHEET**

767UH-13.8-SD

400 Watt, isolated, single output buck converter

All parameters defined on Ta=25°C, IoNom = 34,0 ADC and UiNom = 80VDC

# **ABSOLUTE MAXIMUM RATINGS**

parameter	unit	typ
Input peak voltage	VDC	125.00

### 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

# **COMMUNICATION INTERFACE**

parameter	unit	fulfilled	conditions	min to max
Option shut down (left open for operation)		<b>✓</b>		
Shutdown voltage for transformer	VDC		loNom	-0,2 to 2,8

# **SPECIALS**

unit	fulfilled	conditions	typ
kHz			125
%		0.25loNom	90.00
%		0.5loNom	93.00
%		loNom	93.00
	✓		
	✓		
	✓		
nF			transformer winding only
VDC			2100
VDC			2100
	kHz % % % nF VDC	kHz % % % %  / / / / nF VDC	kHz %

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	loNom	30	80	110	_
No load input current	mA	UiNom		50		_
Max. input current	A	UiNom		20		_
Input start up voltage	VDC	UiNom		30.0		_
Undervoltage lockout	VDC	UiNom		28.0		_
Input quiescent current in shutdown mode	mA	UiNom		2.50		_

# **OUTPUT**

parameter	unit	conditions	min typ max
Output voltage	VDC	IoNom	13.8
No Load output voltage increase	%	UiNom	4
Minimum required load to obtain the specified output voltage	%	UiNom	2
Output voltage accuracy	%	IoNom	+/-2,50%
Output voltage overshoot at initial switch-on	%	IoNom	overdamped
Rated output power	W		400

# CONTROL

parameter	unit	conditions	min typ max
Maximum admissible capacitive load	uF	loNom	infinite
Initial switch on time	ms	loNom	500
Softstart ramp up time	ms	loNom	30

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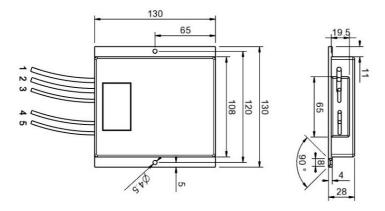
# **MECHANICAL**

parameter	unit	
Overall dimensions	mm	130x130x28
Weight	g	900

Pin No.	Function	<b>Electrical Determination</b>	Colour	<b>Cross-Section</b>	Cable length
1	Vi+	Input voltage positive	red	6 mm²	300 mm
2	Vi-	Input voltage negative	black	6 mm²	300 mm
3	SD	Shut down	blue	1,5 mm <sup>2</sup>	300 mm
4	Vo-	Output voltage negative	brown	6 mm²	300 mm
5	Vo+	Output voltage positive	red	6 mm²	300 mm

#### Mechanical dimensions and Pin configuration

All dimensions in mm Connector type: cable Case: FMC 130x130x28



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