Electrical Specification for **G6DC36W900CA**

Constant Current DC-DC Converter

Approval Marks

	Item	Value	Remark
Input	DC voltage input	48V	
	Nominal frequency	0 HZ	
	DC voltage range	47-50V	
	Nominal current	820mA	Full load @48Vdc input voltage
	Efficiency	92%	Full load @48Vdc input voltage
	Stand-by power	N/A	
Output	Nominal voltage range	3-40Vdc	
	Maximum voltage	48Vdc	No load protection
	Nominal current range	150-900mA	Refer to Dip-switch setting
	Current accuracy		
	Iout=150mA~200mA	± 8%	
	Iout=250mA~900mA	± 5%	
	Current ripple	± 5%	
	SVM	≦0.4	Full load @48Vdc input voltage
	PstLM	≦1	Full load @48Vdc input voltage
	Starting time	< 0.5S	Full load @48Vdc input voltage
	Nominal power range		
	Iout=150mA	0.4-6.0W	
	Iout=200mA	0.6-8.0W	
	Iout=250mA	0.7-10.0W	
	Iout=300mA	0.9-12.0W	
	Iout=350mA	1.0-14.0W	
	Iout=400mA	1.2-16.0W	
	Iout=450mA	1.3-18.0W	
	Iout=500mA	1.5-20.0W	
	Iout=550mA	1.6-22.0W	
	Iout=600mA	1.8-24.0W	
	Iout=650mA	1.9-26.0W	
	Iout=700mA	2.1-28.0W	
	Iout=750mA	2.2-30.0W	
	Iout=800mA	2.4-32.0W	

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	Item	Value	Remark
Output	Iout=850mA	2.5-34.0W	
	Iout=900mA	2.7-36.0W	
	Maximum power	36.0W	
Dimming	Dimming control	NA	
	Dimming technique	NA	
	Dimming range	NA	
	Lowest dimming current	NA	
	Galvanic isolation	NA	
Environment	Ambient temperature (ta)	-20°C - +35°C	
	Storage temperature range	-20°C - +85°C	
	Relative humidity	10 - 95%	
	Environmental rating	Indoor	
	Mains switching cycles	> 100,000	
	Expected lifetime	> 50,000 h, tc 85°C @ ta +35 °C > 100,000 h, tc 75°C @ ta +25 °C	0.2% / 1,000h failure rate 0.1% / 1,000h failure rate
Packing	Gross weight/box	8.3 kg	
	Net weight/box	4.6 kg	
	Pcs/box	576 PCS	
	Dimension/box	385(L)*310(W)*260(H)mm	

Protections	
Short-circuit Protection	Auto recovery
Open-circuit Protection	Auto recovery
Overload Protection	Auto recovery

Conformity & Standards	
Safety standard:	EN 61347-1, EN 61347-2-13, EN 62493
Performance:	EN 62384
EMC standard:	EN 55015, EN 61547

Cable information	
OUTPUT-Connection	
Cable cross-section	0.14-0.34□/AWG 26-22
Stripping	5mm

Subject to change without notice, HEP guarantees all products perform functionally well

*If not mentioned, all the test conditions are based on full load at 48Vdc input (for 48Vdc input).

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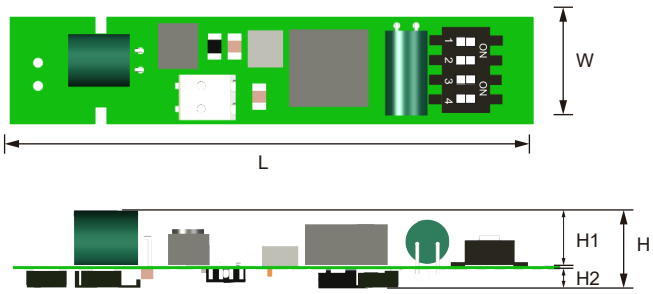
Physical
Parameter



L : 68 mm W : 14 mm
H : 9.6 mm H1: 6.3 mm H2: 2.3 mm

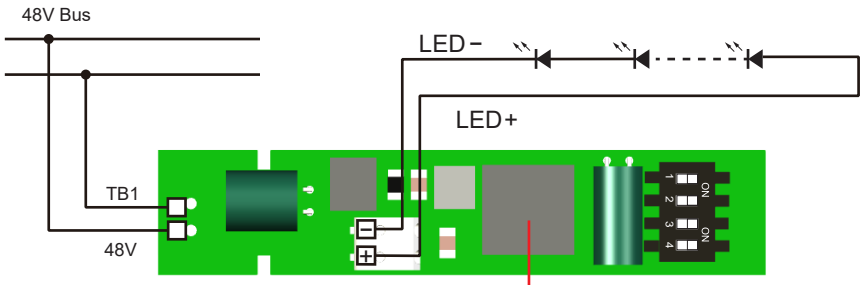
The max height of the component is 10 mm.

Dip Switch - One driver offers 16 choosable output current

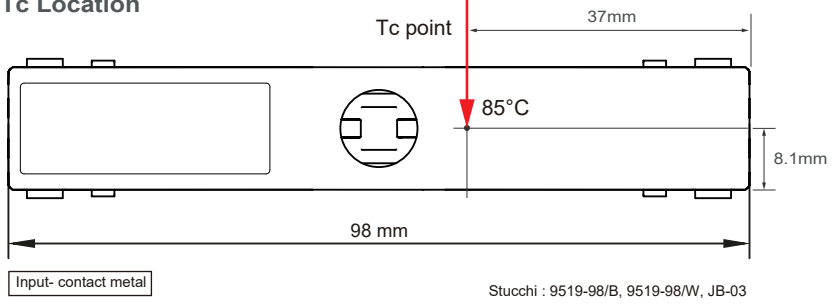
900mA

Current	Dip-switch setting			
	1	2	3	4
150mA	-	-	-	-
200mA	ON	-	-	-
250mA	-	ON	-	-
300mA	ON	ON	-	-
350mA	-	-	ON	-
400mA	ON	-	ON	-
450mA	-	ON	ON	-
500mA	ON	ON	ON	-
550mA	-	-	-	ON
600mA	ON	-	-	ON
650mA	-	ON	-	ON
700mA	ON	ON	-	ON
750mA	-	-	ON	ON
800mA	ON	-	ON	ON
850mA	-	ON	ON	ON
900mA	ON	ON	ON	ON

Wiring Diagram



Case Tc Location



Stucchi : 9519-98/B, 9519-98/W, JB-03

* This driver is only suitable for non-magnetic cases. There will be noise when using magnetic cases.