

AC Dimmable Constant Voltage LED power supply 100W

DDS738 è un alimentatore per Led con uscita a tensione costante, dimmerabile sulla alimentazione 230Vac, tramite Dimmer IGBT o TRIAC.

Questo modulo a tensione costante genera un segnale PWM per alimentare strisce led o moduli led che possono essere alimentati a tensione. La luminosità è regolata in corrispondenza della regolazione dell'angolo di fase di alimentazione in ingresso.

Il vantaggio applicativo di questo alimentatore è che non necessita di un controllo 0/10vdc per regolare la luminosità dei led, con conseguente semplificazione del cablaggio. La tensione in ingresso di lavoro è 230Vac o 350VDC, per una massima tollerata AC di 240.

La tensione costante può essere 12Vdc o 24Vdc a scelta in fase di ordine.

Questo alimentatore è SELV con doppio isolamento rinforzato, protetto dal corto circuito intrinsecamente.

Morsettiere per cavi di 2.5 mm

DDS738 it is a Dimmable power supply for strip LED.

The dimming is cut phase mode leading edge or trailing edge. IGBT dimmer are recommended for low noise application.

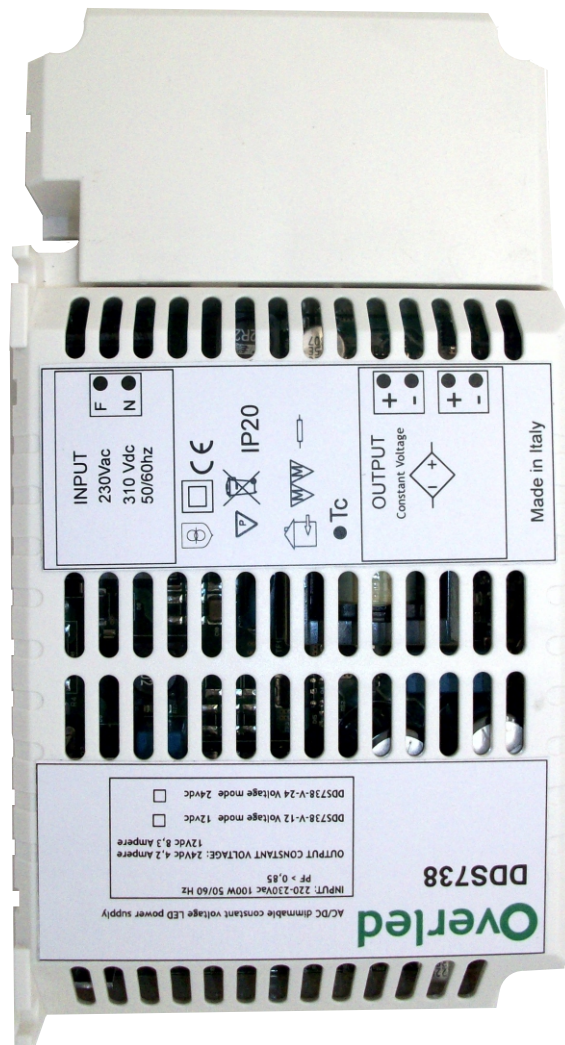
Dimmering the VAC power supply a PWM out is generated, from 100% up to 5% following the cut phase input.

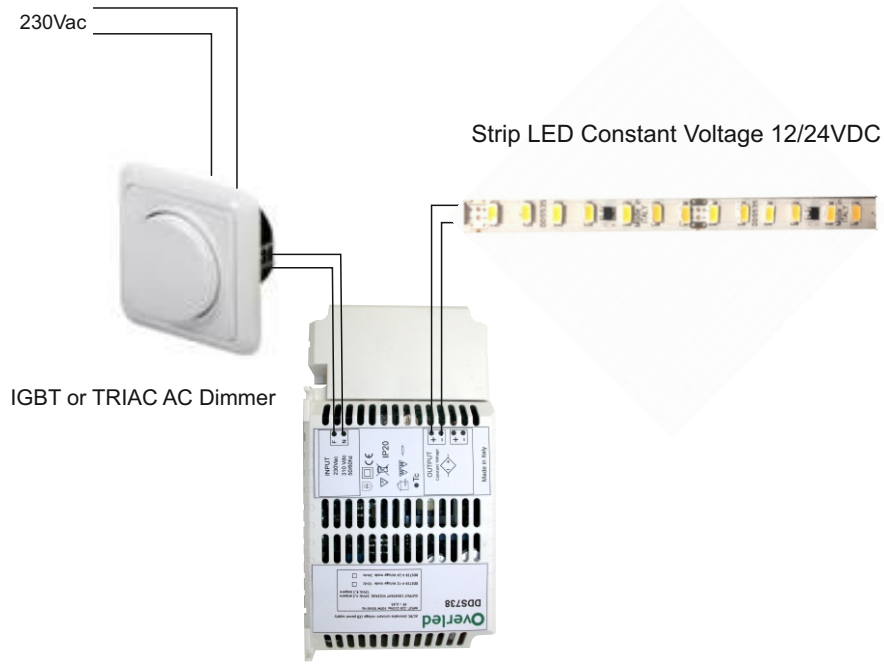
This help to save 0-10Vdc controller, wiring and space, just dimmer the input power supply and output will generate PWM.

The output can be 12Vdc or 24Vdc in constant voltage mode.

This power supply is SELV double insulated, short circuit protection, and it can be supplied in AC or DC input voltage, see table for the value.

Connector for 2.5mm cable gauge in output and input.

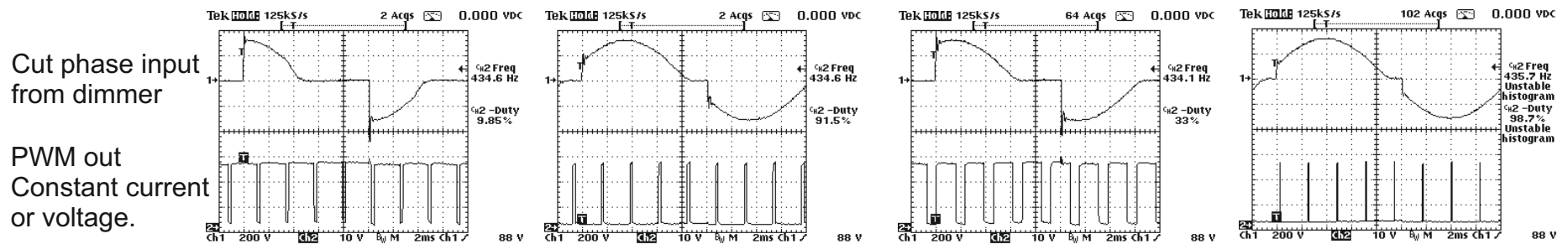




Cablaggio con uscita in tensione costante controllata in angolo di fase tramite dimmer sulla alimentazione a 230vac, l'uscita controlla strip led a 12vdc o 24vdc.

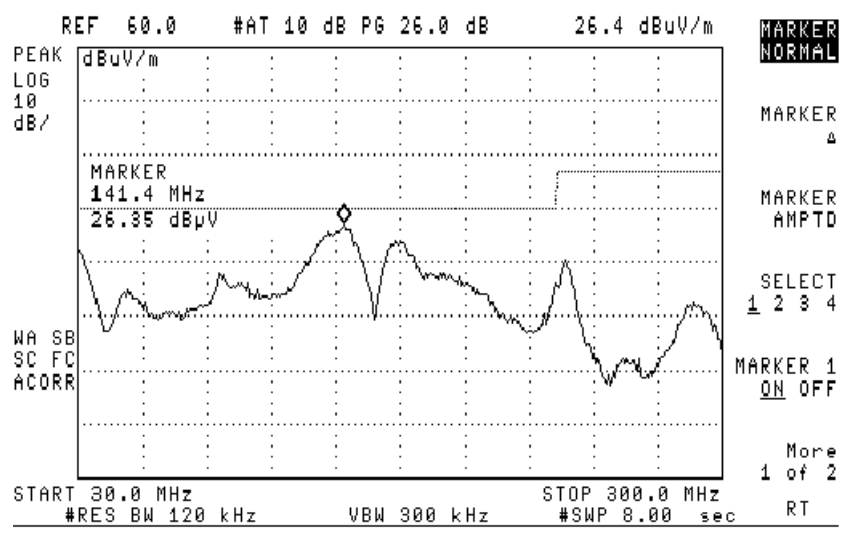
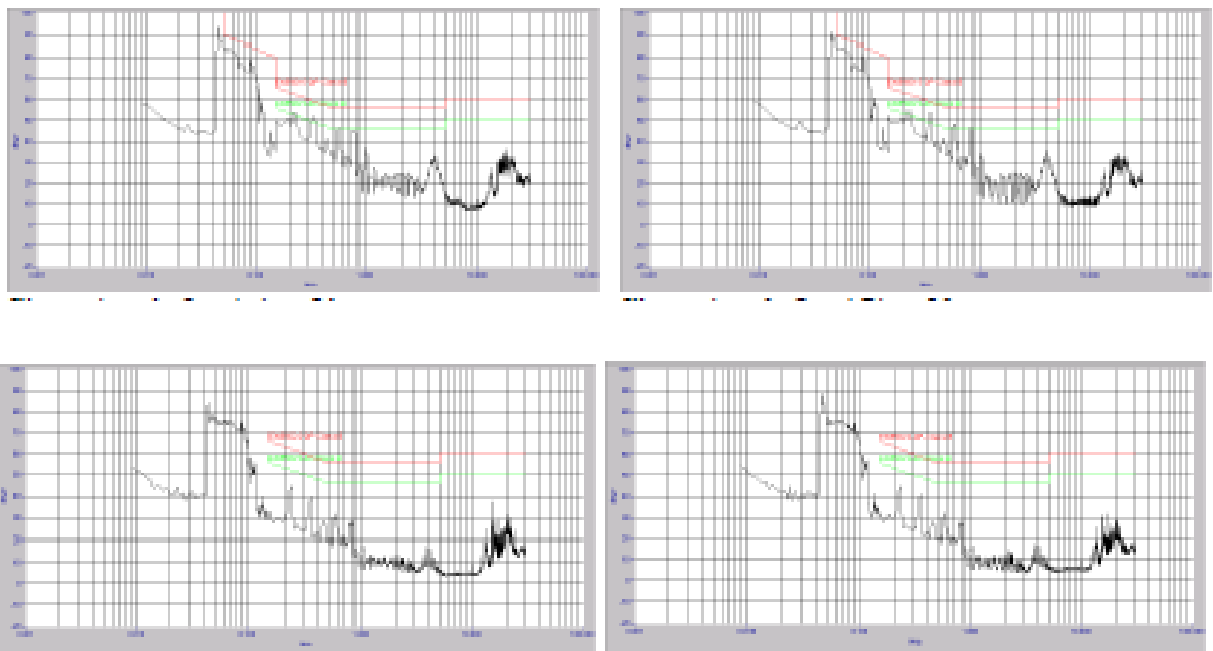
Wiring diagram for dimering constant voltage using input cut phase, 12 or 24vdc output available.

Relation between input cut phase and PWM output



DDS738 EMC Test

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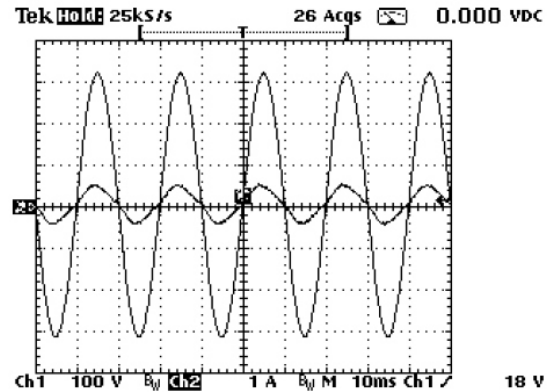
#	FREQUENCY (MHz)	PEAK (LIM)	QP (LIM)	AVG (LIM)
1	141.227	27.9 -2.1	21.8 -8.2	12.4 -17.6
2	161.093	24.0 -6.0	18.2 -11.8	11.5 -18.5

VIEW TABLE
 VIEW LOG
 VIEW LINEAR
 VIEW TRACE
 SAVE TO CARD
 Return

MARGIN SET TO 7.0 DB BELOW LIMIT LINE

Electrical specification:

	Min	Typ	Max
Power IN	192Vac	230Vac	240Vac
PFC	0.94	0.96	0.97
Input	6W	65W	70W
HZ input	47Hz	50Hz	63Hz
DC input	300Vdc	330Vdc	340Vdc
In-Rush 2ms	7A	8A	9a
Eff. %	80%	85%	85%
PWM out	430 Hz	450 Hz	460 Hz
I = 24V		4A	4,2A
I = 12V		8A	8,3A
T.operating	-10 degree		45 degree
PWM out	5%	100%	
cut Phase	28%	100%	
Noise 0.1m	14dba	16dba	22dba

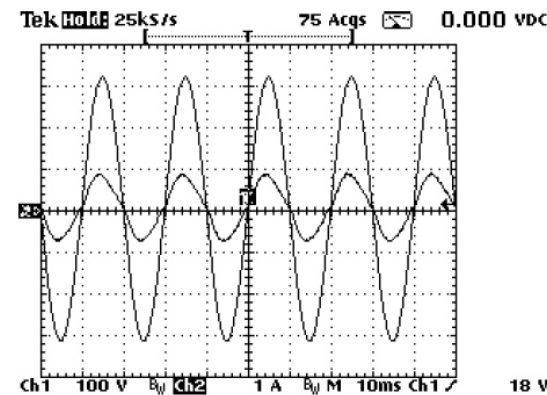


Tek **HOLD** 25ks/s 18 Acqs
Math
 W = 64.95 w PF = 0.97
 VA = 67.16 VA DPF = 0.99
 VAR = 17.06 VAR $\theta = - 8^\circ$

	Average	Minimum	Maximum
W	64.77 w	62.15 w	65.85 w
VA	67 VA	64.93 VA	67.92 VA
VAR	17.11 VAR	16.34 VAR	18.79 VAR
V	224.3 v	224.2 v	224.3 v
A	298.8mA	289.5mA	302.9mA

Ch1 100 V B_{ij} Ch2 200mA B_{ij} M 10ms Ch1 / 22 V
MATH 200 W

Condizione di test: DDS738-24 Carico 24V - 4.4A - 108W

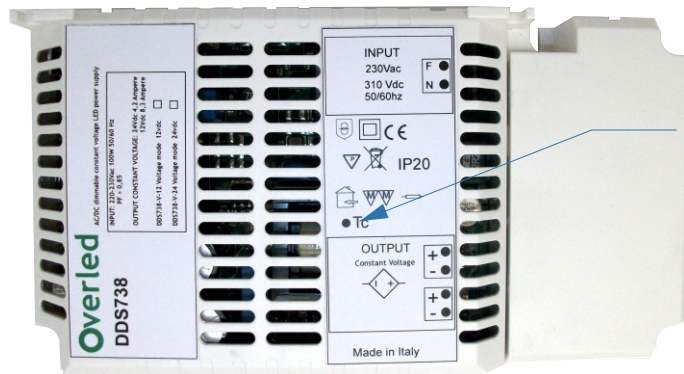
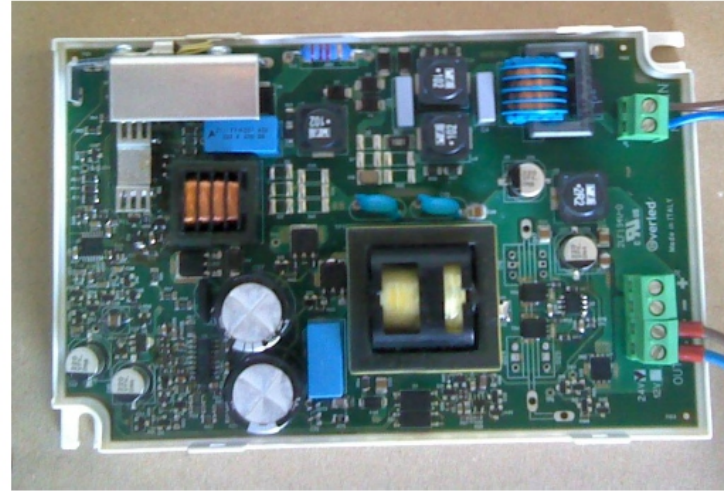
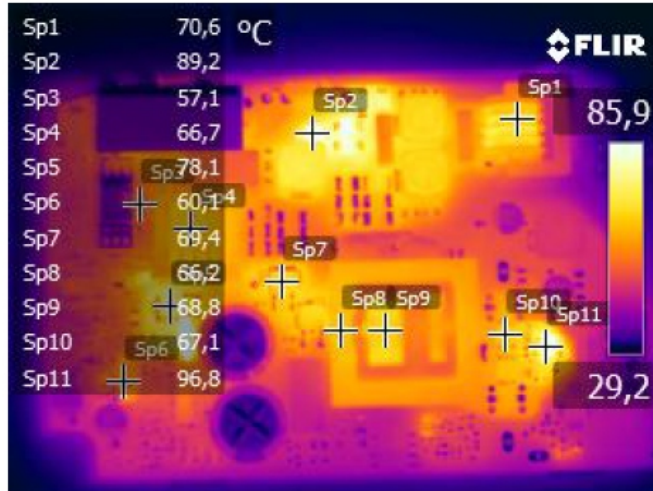


Tek **HOLD** 25ks/s 126 Acqs
Math
 W = 120.7 w PF = 0.99
 VA = 122 VA DPF = 1.00
 VAR = 17.46 VAR $\theta = - 5^\circ$

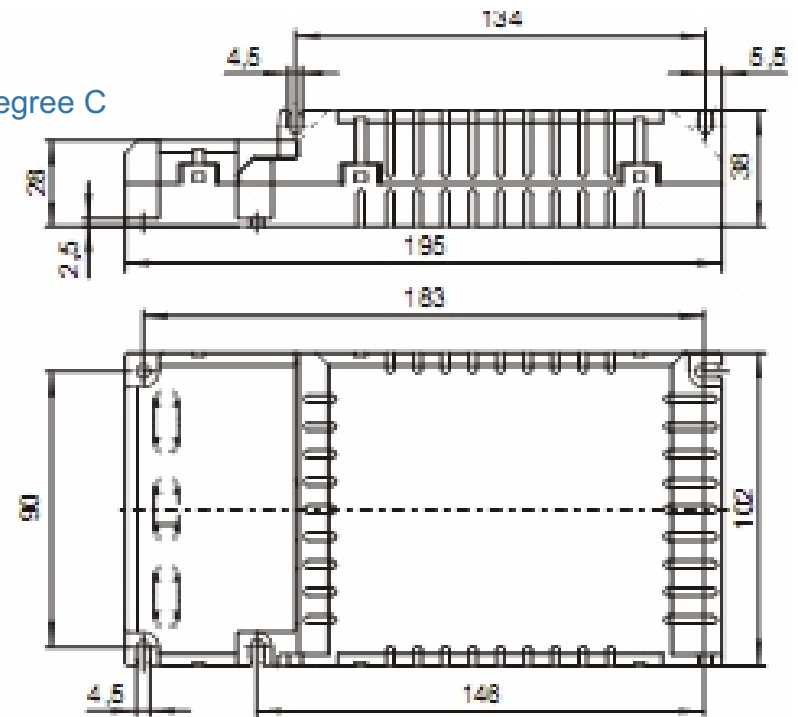
	Average	Minimum	Maximum
W	121.7 w	119.4 w	123.8 w
VA	123 VA	120.7 VA	125 VA
VAR	17.64 VAR	17.34 VAR	18.5 VAR
V	225.5 v	225.4 v	225.6 v
A	545.2mA	535.2mA	554.4mA

Ch1 100 V B_{ij} Ch2 200mA B_{ij} M 10ms Ch1 / 18 V
MATH 200 W

Thermal analysis



Size with cable Lock.



Ordering CODE:

- DDS738-V-12 PWM 12Vdc Voltage output
- DDS738-V-24 PWM 24Vdc Voltage output