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Obj: ARTICLES UPDATE

TCI constantly provides customers with up-to-date products and the best solutions fulfilling their needs.

Herewith we are glad to inform your appreciated company that we are currently offering the below new updated „US" versions:

DC MAXI JOLLY (122410) → DC MAXI JOLLY US (122411)
DC MAXI JOLLY DALI (122412) → DC MAXI JOLLY US DALI (122413)

New characteristics:
- "US" indication will be added after the article name
- KEMA and ENEC certificates and new UL certification (for U.S.A. market)
- technical improvements:

  - EMC filter improved
  - network surge protection elevated to 3,5/4kV
  - wide range 110/240V

Your company has been provided with the above mentioned certificates as well as with the datasheets of the articles in object.

We are sure you will appreciate our commitment.

Kind regards

TCI Srl

TCI S.r.l.
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SPECIFICA TECNICA - *TECHNICAL SPEC.*
Alimentatore DC MAXIJOLLY US
Dimmable LED AC/DC Power Supply *Cod:122411*

INGRESSO

- Nominale AC: 110/240 Vac $^{-10/+10\ \%}$ 50/60Hz.
- Range DC: 170/280 Vdc
- Morsettiera 1 x 2.5 mm^2.
- Serracavo per cavi D= 3…8mm.
- Corrente massima: 0.55 A / 0,25A.
- Fattore di potenza λ: 0.95 @ Pout >25W
- Armoniche corrente assorbita: secondo EN 61000-3-2.
- Inrush current: 20A 400uS.

USCITA

- Isolamento SELV.
- Morsettiera 1 x 0,5…2.5 mm^2.
- Serracavo per cavi D = 3…8mm.
- Selezione corrente e tensione di uscita tramite DIP switch (vedi tabella).
- Potenza massima e precisione di corrente
  25W @ 350mA ± 6% (2..74V)
  35W @ 500mA ± 5% (2..72V)
  39W @ 550mA ± 5% (2..72V)
  46W @ 650mA ± 5% (2..72V) (40W max UL @110V)
  50W @ 700mA ± 5% (2..71V) (40W max UL @110V)
  50W @ 750mA ± 5% (2..66V) (40W max UL @110V)
  50W @ 850mA ± 5% (2..58V) (40W max UL @110V)
  50W @ 900mA ± 5% (2..55V) (40W max UL @110V)
  50W @ 1050mA ± 5% (2..48V)(40W max UL@110V)
  50W@1400mA ± 5% (2…35V) non per funzionamento continuativo.
  50W @ 48V ± 5% (1050mA max) (40W max UL @110V)
- Tensione in uscita massima: 90 VDC.
- Efficienza massimo carico: 0,91%. DIM 50%: 0,87%.
- Consumo senza carico: 1.6W.
- Uscita ausiliaria isolata 12V 100mA max

REGOLAZIONE

- Tipo PWM (220/240Hz) comandata da segnale 1-10V, potenziometro 100K , pulsante * **.
- Segnale 1-10V e potenziometro collegabile sul lato secondario (corrente fornita max 1 mA).
- Pulsante collegabile su lato primario tra fase e morsetto dedicato (impedenza 170Kohm).
- Connettori per sincronizzazione più alimentatori (1 master + 9 slaves max).
- Connettore per collegamento NTC esterna per riduzione corrente carico: tensione intervento 3V: Resint 18K. (Vedi tabella).
- Possibilità selezione softstart ***.

INPUT

- Nominal AC: 110/240 Vac $^{-10/+10\ \%}$ 50/60Hz.
- Range DC: 170/280 Vdc
- Terminal block for up to 1 x 2.5 mm^2.
- Strain relief for cables with D= 3…8mm.
- Max Input Current: 0.55 A / 0,25A.
- Power factor λ: 0.95 @ Pout >25W.
- Harmonic content of mains current: according to EN 61000-3-2.
- Inrush current: 20A 400uS.

OUTPUT

- SELV insulation on output.
- Terminal block for up to 1 x 0,5…2.5 mm^2.
- Strain relief for cables with D = 3…8mm.
- Selection of current and voltage output through Dip switch (See table)
- Max output power and current precision
  25W @ 350mA ± 6% (2….74V)
  35W @ 500mA ± 5% (2….72V)
  39W @ 550mA ± 5% (2..72V)
  46W @ 650mA ± 5% (2..72V) (40W max UL @110V)
  50W @ 700mA ± 5% (2..71V) (40W max UL @110V)
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  50W @ 900mA ± 5% (2..55V) (40W max UL @110V)
  50W @ 1050mA ± 5% (2..48V)(40W max UL@110V)
  50W@1400mA ± 5% (2…35V) not for continuous operation.
  50W @ 48V ± 5% (1050mA max) (40W max UL @110V)
- Max. Output voltage: 90 VDC.
- Efficiency @full load: 0,91%. DIM 50% =0,87%.
- No load consumption: 1.6W.
- 12V isolated auxiliary output max 100mA.

DIMMING

- PWM (220/240Hz) controlled by 1-10V signal, 100K potentiometer , pushbutton * **.
- Terminal block on the secondary side for 1-10V Signal or potentiometer (max source current 1 mA) .
- Terminal block on primary side for push button; connection between phase and terminal block (Impedance 170Kohm).
- Header for other power supplier synchronization (1master + 9 slaves max).
- Terminal block for external NTC signal for load current reduction: trigger voltage 3V: Int Res. 18K (see table).
- Selectable Softstart ***.

ENTE EMITTENTE: DT Compilato _____ Visto _____

PROTEZIONI

- All'ingresso, contro sovratensioni impulsive di rete (secondo EN 61547).
- Protezione al corto circuito e al circuito aperto.
- Protezione al sovraccarico e di temperatura (C.5.a della EN 61347-1).
- All'ingresso, contro sovratensioni impulsive di rete (secondo EN 61547) fino a 3.5KV N-L , 4KV N-GND e 4KV L-GND

FILTRO ANTIDISTURBO EMI

- Secondo EN55015.

AMBIENTE

- Temp. ambiente: -25…50 °C.
- Temp. ambiente: -25…45 °C per 900mA 1050mA, 1400mA.
- tc = 85 °C.
- tc life 50000H = 80°C.

SICUREZZA

- Hi-pot test: 3.75 kV, 100% per 2 sec.

NORMATIVE

- EN 61347-1 ; EN 61347-2-13 ; EN 61547 ; EN 55015 ; EN 61000-3-2 ; EN62384
  DIN VDE 0710 teil 14.
- IEC 62386-102 IEC 62386-207
- KEMA KEUR / ENEC05 / UL.

DIMENSIONI

- L=124.5mm / L1=111mm / L2=67mm / B=79 mm / H = 22 mm.

PROTECTIONS

- Against input overvoltages from mains (according to EN61547).
- Against short circuit and open circuit.
- Thermal and overload protection (C.5.a EN 61347-1).
- Against input overvoltages from mains (according to EN61547) up to 3.5KV N-L , 4KV N-GND e 4KV L-GND.

EMI

- According to EN55015.

AMBIENT

- Ambient temp.: -25….50 °C.
- Ambient temp.: -25….45 °C for 900mA, 1050mA, 1400mA.
- tc = 85 °C.
- tc life 50000H = 80°C.

SAFETY

- Hi-pot test: 3.75 kV, 100% for 2 sec.

STANDARDS

- EN 61347-1 ; EN 61347-2-13 ; EN 61547 ;
- EN 55015 ; EN 61000-3-2 ; EN62384
  DIN VDE 0710 teil 14.
- IEC 62386-102 ; IEC 62386-207
- KEMA KEUR / ENEC05 / UL.

DIMENSIONS

- L=124.5mm / L1=111mm / L2=67mm / B=79 mm / H = 22 mm.

Valore NTC	Temperatura inizio intervento (3V Req= 26Kohm)	Temperatura spegnimento completo (2,2V Roff=15Kohm)
100K	55°C	72°C
150K	65°C	80°C
220K	75°C	90°C

Tabella intervento NTC esterna. Vedere specifica produttore di NTC
External NTC Table. See NTC manufacturer datasheet.

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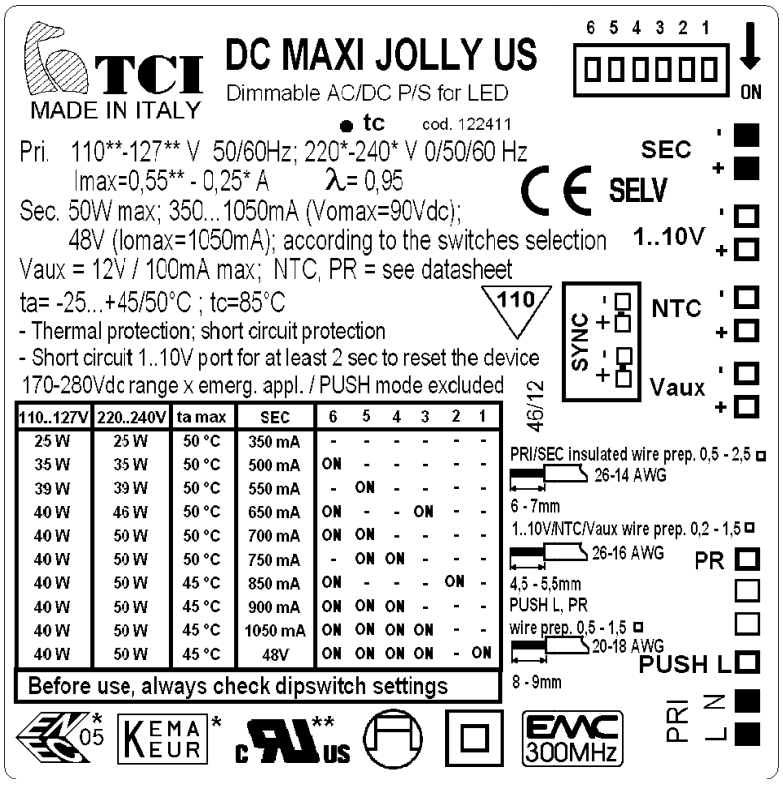
SPECIFICA TECNICA - *TECHNICAL SPEC.*

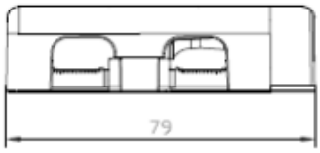
Alimentatore DC MAXIJOLLY US

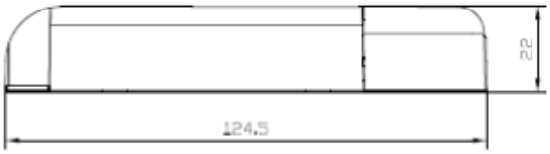
Dimmable LED AC/DC Power Supply Cod:122411

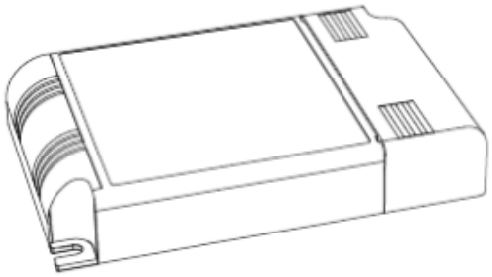


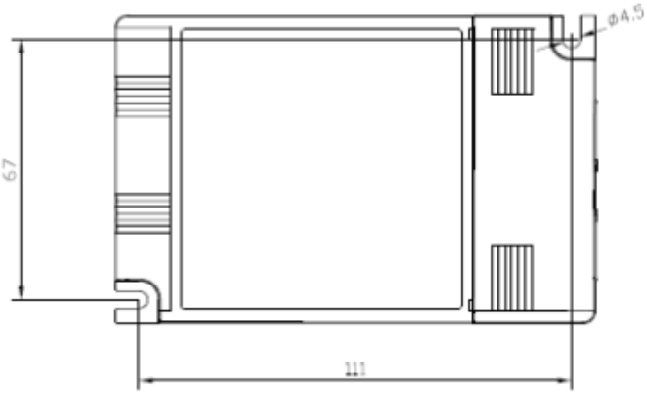
110..127V	220..240V	ta max	SEC	6	5	4	3	2	1
25 W	25 W	50 °C	350 mA	-	-	-	-	-	-
35 W	35 W	50 °C	500 mA	ON	-	-	-	-	-
39 W	39 W	50 °C	550 mA	-	ON	-	-	-	-
40 W	46 W	50 °C	650 mA	ON	-	-	ON	-	-
40 W	50 W	50 °C	700 mA	ON	ON	-	-	-	-
40 W	50 W	50 °C	750 mA	-	ON	ON	-	-	-
40 W	50 W	45 °C	850 mA	ON	-	-	-	ON	-
40 W	50 W	45 °C	900 mA	ON	ON	ON	-	-	-
40 W	50 W	45 °C	1050 mA	ON	ON	ON	ON	-	-
40 W	50 W	45 °C	48V	ON	ON	ON	ON	-	ON

Before use, always check dipswitch settings









ENTE EMITTENTE: _____ Compilato: _____ Visto: _____

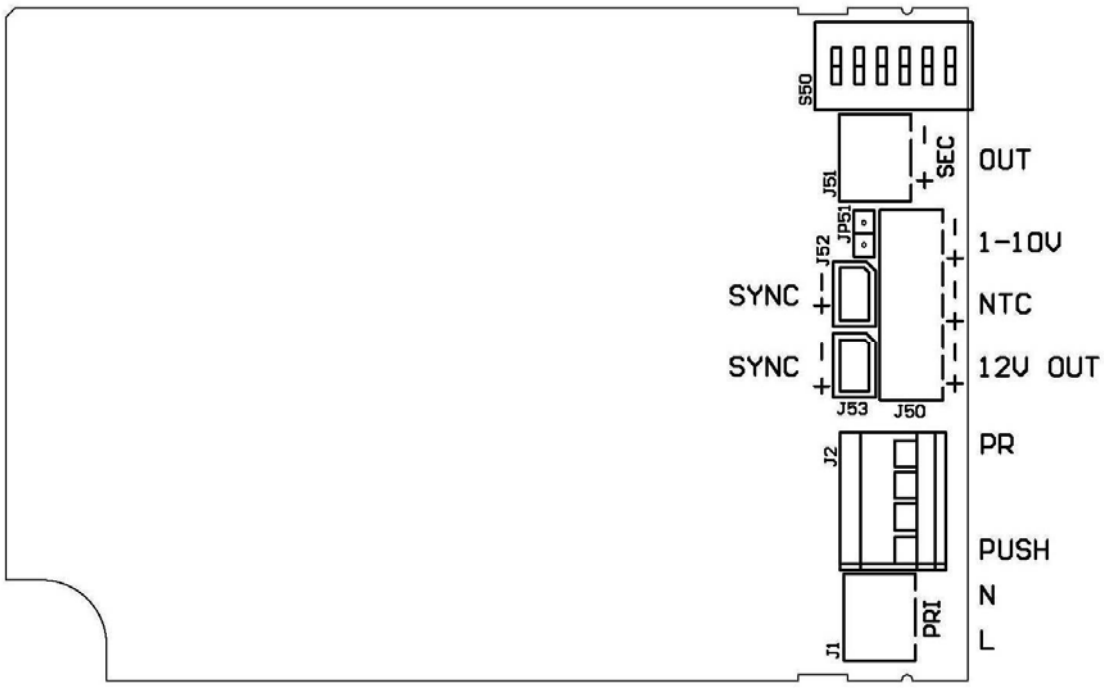
* Il pulsante deve essere collegato tra il connettore (Push) e la fase. L'utilizzo del pulsante inibisce l'uso del segnale 1-10V. Per tornare all'utilizzo del segnale 1-10V tenere il segnale minore di 0,5V per almeno 5 secondi.

Push button must be connected between the Terminal block (PUSH) and Phase. The use of push button inhibits the 1-10V signal. To reset keep the 1-10V signal below 0,5V for at least 5 seconds.

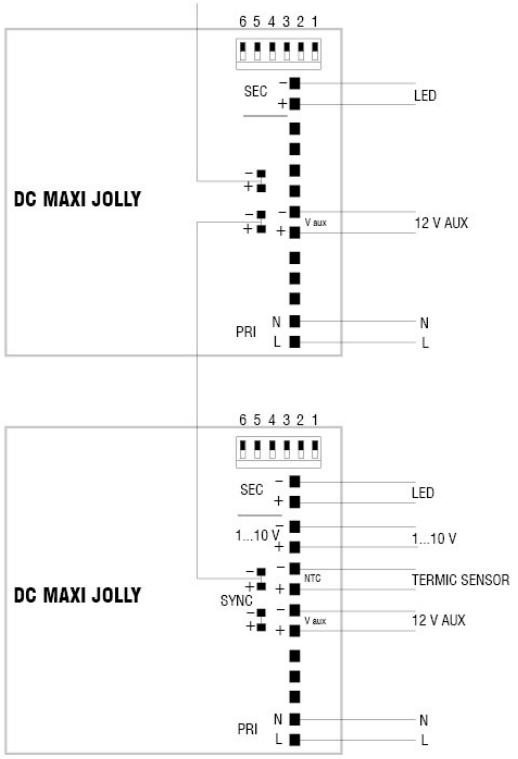
** Sincronizzazione PUSH:
Se si utilizza più di un dispositivo con un singolo tasto PUSH, si può verificare un comportamento asincrono, il quale richiede una resincronizzazione manuale usando il metodo descritto. Si raccomanda di non controllare più di 4 dispositivi con un singolo tasto. Se questo risulta inaccettabile, utilizzare il cavo di sincronismo.
Un qualunque sistema di dimmerazione che non ha un modulo centrale di controllo (dato che ogni driver ha il suo proprio controllo) può generare un comportamento asincrono (es. bambini che giocano con il tasto). Il sistema è quindi fuori sincronismo, per esempio alcune lampade sono accese, altre spente o la direzione di dimmerazione differisce da lampada a lampada.
Metodo di resincronizzazione: quando i driver sono accesi, premere il tasto PUSH per più di 1 secondo (long PUSH) seguito da una pressione rapida minore di 1 secondo (short PUSH). Ora i dispositivi sono spenti, effettuare un long PUSH, il sistema è ora resincronizzato.
Massima lunghezza totale cavi PUSH: 15m.

PUSH Synchronisation:
If more than one device is operated with a single key during PUSH operation, asynchronous behaviour can occur, which will require manual resynchronisation using the method described. It is recommended not to control more than four devices using a single key.
Should this be unacceptable, a synchronisation cable will have to be used instead.
Any 1-key dimmer that does not feature a central control module (as each driver will have its own controls) can develop asynchronous behaviour (e.g. children might play with the key). The system will then be out of sync, i.e. some lamps will be on, others off or the dimming direction will differ from lamp to lamp.
Method of resynchronisation: when the drivers are switched on, press the PUSH key for more than one second (long PUSH) followed with a short push (<1s). Now the devices are switched off, do a long PUSH, the system will now be resynchronised.
Total length of PUSH cables: 15m.

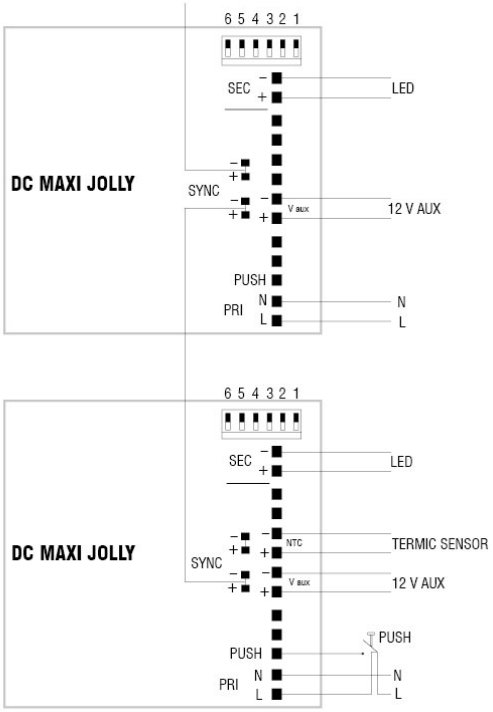
*** La selezione della funzione softstart avviene tenendo in cortocircuito il morsetto di PUSH con il morsetto di FASE nel momento dell'accensione dall'alimentatore.
To select the softstart function keep in shortcircuit PUSH terminal block with Phase terminal block at switch on.



ENTE EMITTENTE: _____ Compilato: _____ Visto: _____



Schema collegamento 1-10V
1-10V wiring



Schema collegamento PUSH con cavo sincronizzazione
Wiring with PUSH and synchronization cable

Function of PR terminal:
This connection improves and introduces some new functionality, such as:

A: EMC Improvement in some specific application, where there are a lot of metal surfaces and some critical cabling layout

B: LED glowing:
sometimes there are some glowing effects due to the leakage current produced by combination of wires and metal surface. Thanks to the connection between metal parts and PR terminal is possible to reduce or eliminate this effect.

C: If you connect PR terminal block to the metal surface is also possible to reach higher immunity values during surge tests (EN 61000-4-5).

Insulation of PR circuit:
you can connect PR terminal to the accessible surface, connected or not connected to the ground (class I or class II luminaires), because there are always more than 5 mm. between PRI (230V) and PR terminal; it is called reinforced insulation according to EN 60598-1

WARNING:
PR connection can increase voltage potential of LEDs heatsink (or metal parts of the luminaire if heatsink is connected to it) in relation to EARTH potential.
Evaluate this connection according to Safety Standards related to the application.

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____