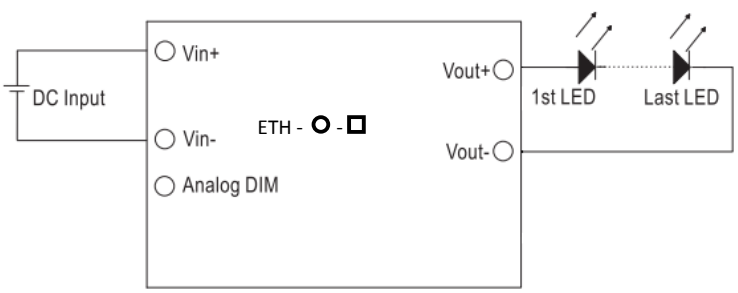
DC-DC STEP UP
CONSANT CURRENT

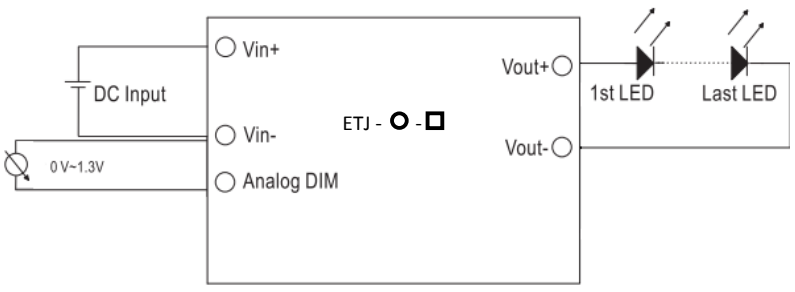
ET △ - ○ - □ △ =H(adjustable); J(dimmable analog DIM) ○ =Vin □ = mA

MODEL		ET△-12-350	ET△-12-550	ET△-12-750	ET△-12-1050	ET△-24-350	ET△-24-500	ET△-24-700	ET△-24-900	ET△-24-1050	ET△-24-1300
OUTPUT	RATED CURRENT	350mA	550mA	750mA	1050mA	350mA	500mA	700mA	900mA	1050mA	1300mA
	VOLTAGE RANGE	12-38VDC	12-38VDC	12-38VDC	12-38VDC	12-38VDC	12-38VDC	12-38VDC	12-38VDC	12-38VDC	12-38VDC
	RATED POWER	15W*	19W*	27W*	39W*	15W*	19W*	26W*	34W*	39W*	49W**
INPUT	RATED VOLTAGE	12VDC				24VDC					
	RANGE Vin	10-18VDC				18-32VDC					
	EFFICIENCY	UP TO 95%									
ANALOG DIMMING & ON/OFF* CONTROL	REMOTE ON/OFF	Leave open if not used									
		Power ON with dimming: analog DIM~DIM- >0.25~1.3VDC or open circuit									
		Power OFF: analog DIM~DIM- >0.2VDC or short									
	DIM INPUT VOLTAGE RANGE	0.25~1.3VDC									
ENVIRONMENT	TEMP.	-40~ +70°C									
	HUMIDITY	20~90% RH non-condensing									
	VIBRATIONS	10~ 500Hz, 2G 10min./1cycle, for 60 min, each along X,Y,Z axes									
OTHERS	DIMENSION	90*55*24 mm									
NOTE	* Dimming depending on the input voltage is available only on ETH version; on ETJ version the dimming is possibble through AnalogDim (0-1.3V) * Typical aplication with 12 LED Cree XP-G in series ** Typical aplication with 12 LED parallel to 12 LED Cree XP-G For other applications, specify during order process.										

1) Dimming advised for solar panel application :
Output dimmed based on the input voltage



2)External dimming:



- **There are 4 function fases:**

- Fases with Vin=12V:

Vbatt>13 V → BATTERY LEVEL HIGH

12<Vbatt<13 → BATTERY LEVEL MEDIUM

10<Vbatt<12 → BATTERY LEVEL LOW

Vbatt<10 → BATTERY LEVEL VERY LOW

- Fases with Vin=24V:

Vbatt>26 V → BATTERY LEVEL HIGH

24<Vbatt<26 → BATTERY LEVEL MEDIUM

20<Vbatt<24 → BATTERY LEVEL LOW

Vbatt<20 → BATTERY LEVEL VERY LOW

- After defining the fases, it will operate according to the following reduction tables:

BATTERY LEVEL HIGH:

after 5 hours	after 6 hours	after 7 hours	after 8 hours	after 9 hours
80%	70%	60%	50%	40%

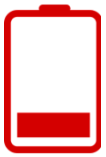
BATTERY LEVEL MEDIUM:

after 5 hours	after 6 hours	after 7 hours	after 8 hours	after 9 hours
80%	60%	50%	40%	30%

BATTERY LEVEL LOW:

after 5 hours	after 6 hours	after 7 hours	after 8 hours	after 9 hours
70%	40%	20%	10%	10%

BATTERY LEVEL VERY LOW: It forces the power OFF of the luminaire reducing battery damages



Immediate
0%

- **To enter the TEST mode it is needed to "bridge", before switching ON the Dips of the Strip with a Jumper.**

Reduction fases:

I FASE	II FASE	III FASE	IV FASE	V FASE
after 1 minute	after 2 minutes	after 3 minutes	after 4 minutes	after 5 minutes

ATTENTION: Do not forget to remove the bridge after the test

- **The status LED blinks indicate the battery status (GREEN LED).**

  - n.1 Blinks every 3 seconds -> Very Low Battery Level
  - n.2 Blinks every 3 seconds -> Low Battery Level
  - n.3 Blinks every 3 seconds -> Medium Battery Level
  - n.4 Blinks every 3 seconds -> High Battery Level

- **The status of the BLUE LED indicates the percentage of the flux actuated on the charge.**

- **The status of the RED LED indicates the presence of the input voltage.**

- **Grafic referred to the Analog DIM of ETJ che riporta la tensione applicata e la corrispondente percentuale di corrente in uscita attuata.**