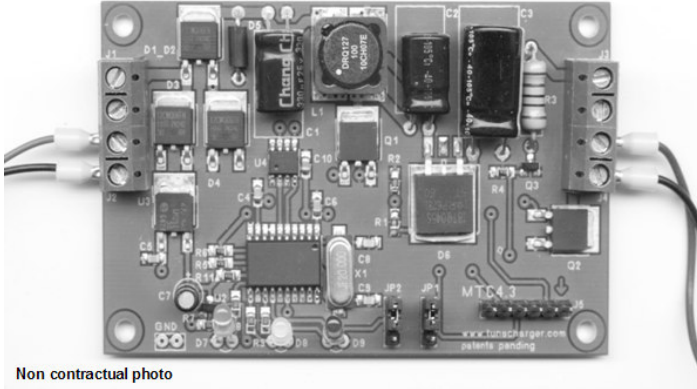


MTC 4.3 at a glance

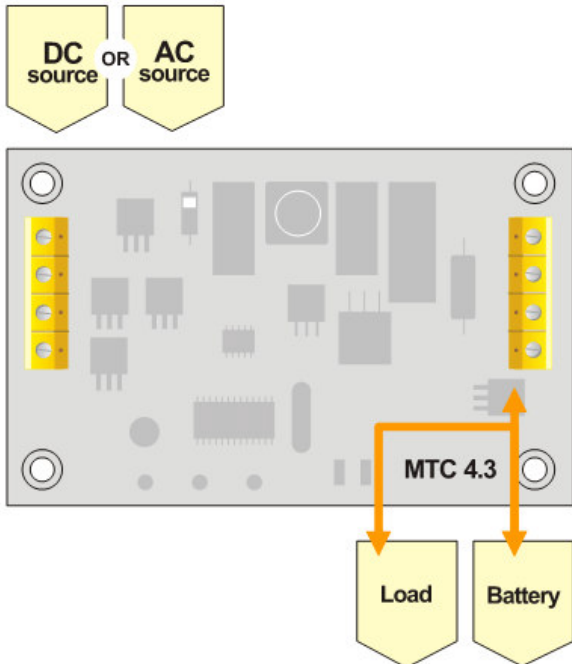
October 2007



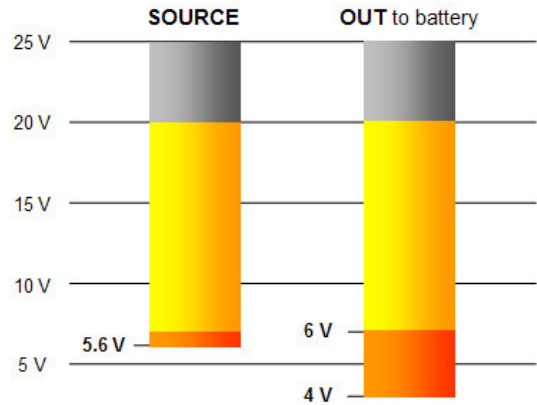
Non contractual photo

Micro Tunecharger 4.3 Evaluation Board

- Tolerant to fluctuation of the source
- Self adapts to the battery
- Optional end-of-charge detection

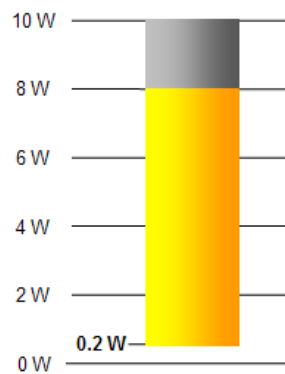


Voltage, dynamic operating range



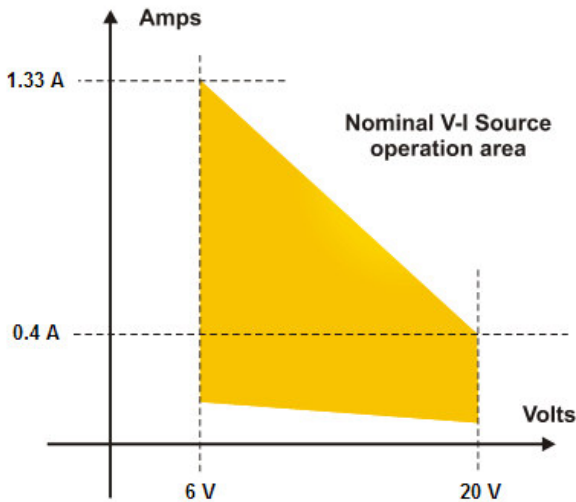
- Please check: $V_{Source} + V_{Battery} \leq 45V$ at all time
- Safe range in **any** combination
- Not optimized yield

Source power operating range



- The charger may block source power increase anywhere within this range.
- The charger performs Maximum Power Point Tracking (MPPT) of the source within this range

Recommended operating range



■ Maximum Power Point Tracking (MPPT) of the source works within this area

End Of Charge: top voltage programming

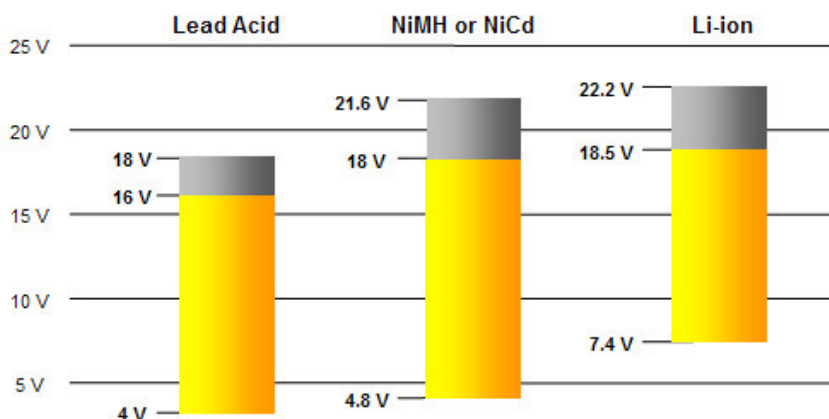
Any microcontroller compatible programming device allows permanent setting of the EOC top voltage



Uses Microchip ICSP serial protocol: most programmers connect to a USB port.

Nominal battery voltage range

- “Nominal” is the commercially marked voltage
- This graph takes into account the effect of over voltage inherent to charging
- Source voltage is assumed < 20V, therefore allowing up to 25V output voltage



■ Needs evaluation: charging over voltage depends on the battery size (Ah) and the power
Notice: lead-acid may jump up to a 50% over voltage factor

■ Safe range

Li-ion is based on usual 3.7 V per Li-ion cell, nominal rating
Notice with Li-ion: End-of-charge voltage monitoring is mandatory