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## Application Note Number .....49...

**Product : LPS250 series**

**Application Overview: LPS250 voltage adjustment range and over current capabilities**

Originator: G. Fry

Location: Merry Hill

Date: 28/9/98

### Description:

The **LPS250 series** has the possibility for the user to obtain any voltage between **3V** and **48V** by using one of the four models in this series. The following charts show the possible voltage / current characteristics at the different voltage settings for each model. The voltages are possible on any of the 3 optional types (-C), (-CEF), (-CF).

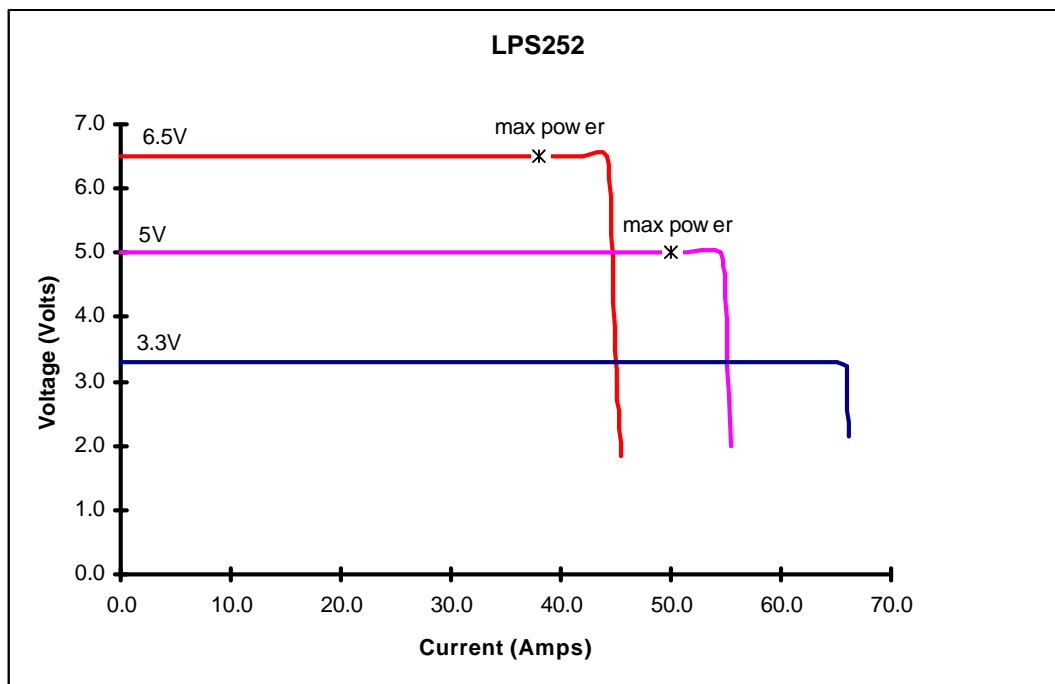
### LPS252

The following was taken from a typical unit, LPS252-CEF rev 01 datecode 9740, serial no. 2609000574. Factory set at 5.0V output

With a load of 5A the voltage adjustment range on the trimmer was 2.80V to 6.60V.

The 'max. power' marker on the curve indicates the full load(250W) capability of the power supply.

The power supply has a fixed power limit so that whatever the voltage setting, the power supply will not fail due to overload. The current limit is of the constant current type making it suitable for highly capacitive loads.





# Application Note Number .....49.....

## LPS253

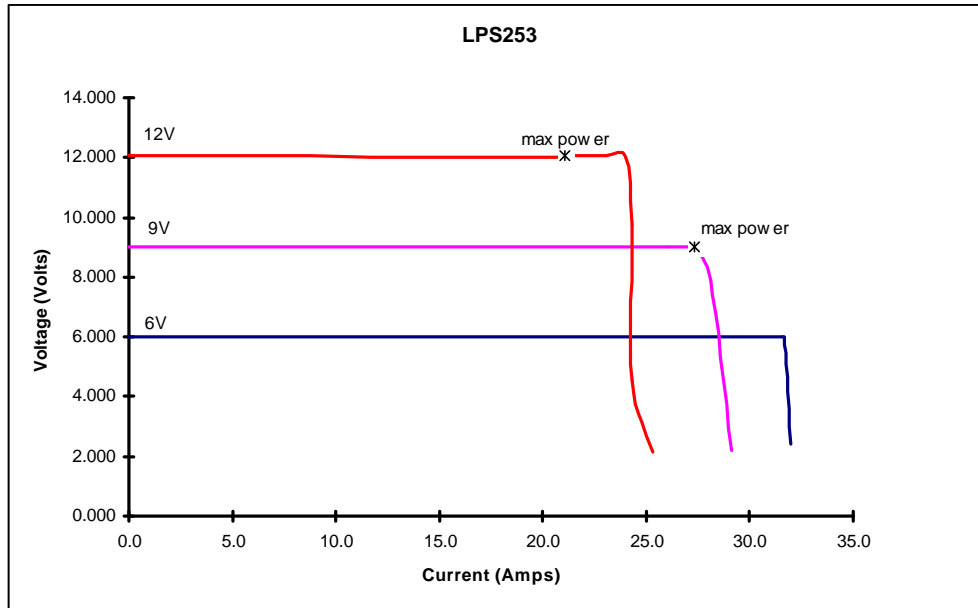
The following was taken from a typical unit, LPS253-CEF rev 01 datecode 9740, serial no. 2609000574.

Factory set at 12V output

With a load of 5A the voltage adjustment range on the trimmer was 5.4V to 12.7V.

The 'max. power' marker on the curve indicates the full load(250W) capability of the power supply.

The power supply has a fixed power limit so that whatever the voltage setting, the power supply will not fail due to overload. The current limit is of the constant current type making it suitable for highly capacitive loads.



## LPS254

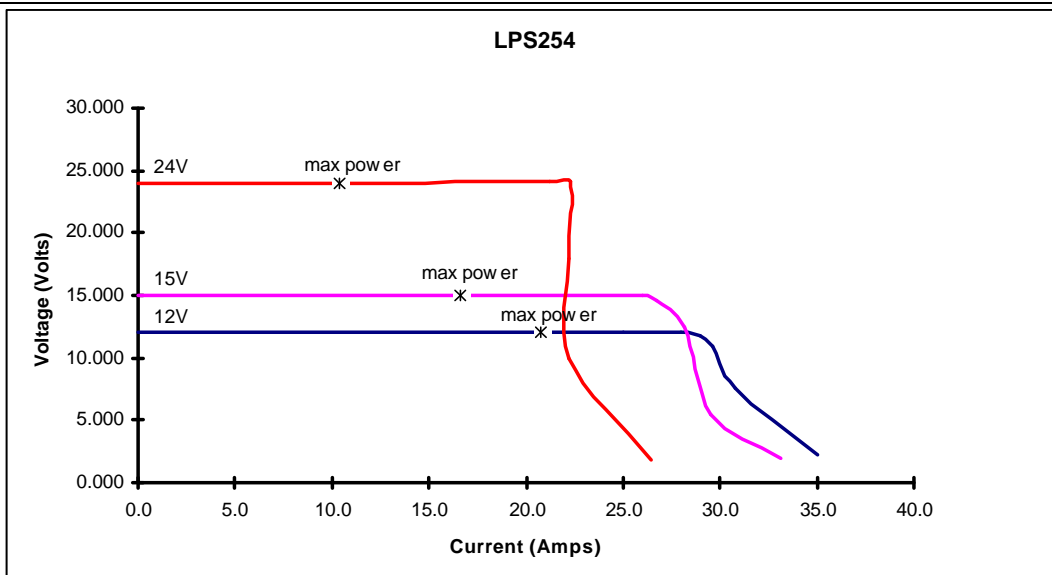
The following was taken from a typical unit, LPS254-CEF rev 01 datecode 9740, serial no. 2518000570.

Factory set at 15V output

With a load of 5A the voltage adjustment range on the trimmer was 10.9V to 26.5V.

The 'max. power' marker on the curve indicates the full load (250W) capability of the power supply.

The power supply has a fixed power limit so that whatever the voltage setting, the power supply will not fail due to overload. The current limit is of the constant current type making it suitable for highly capacitive loads.





**LPS255**

The following was taken from a typical unit, LPS255-CEF rev 08 datecode 9827, serial no. 2610001290. Factory set at 24V output

With a load of 5A the voltage adjustment range on the trimmer was 17.2V to 53.2V.

The 'max. power' marker on the curve indicates the full load(250W) capability of the power supply.

The power supply has a fixed power limit so that whatever the voltage setting, the power supply will not fail due to overload. The current limit is of the constant current type making it suitable for highly capacitive loads.

