Product Picture
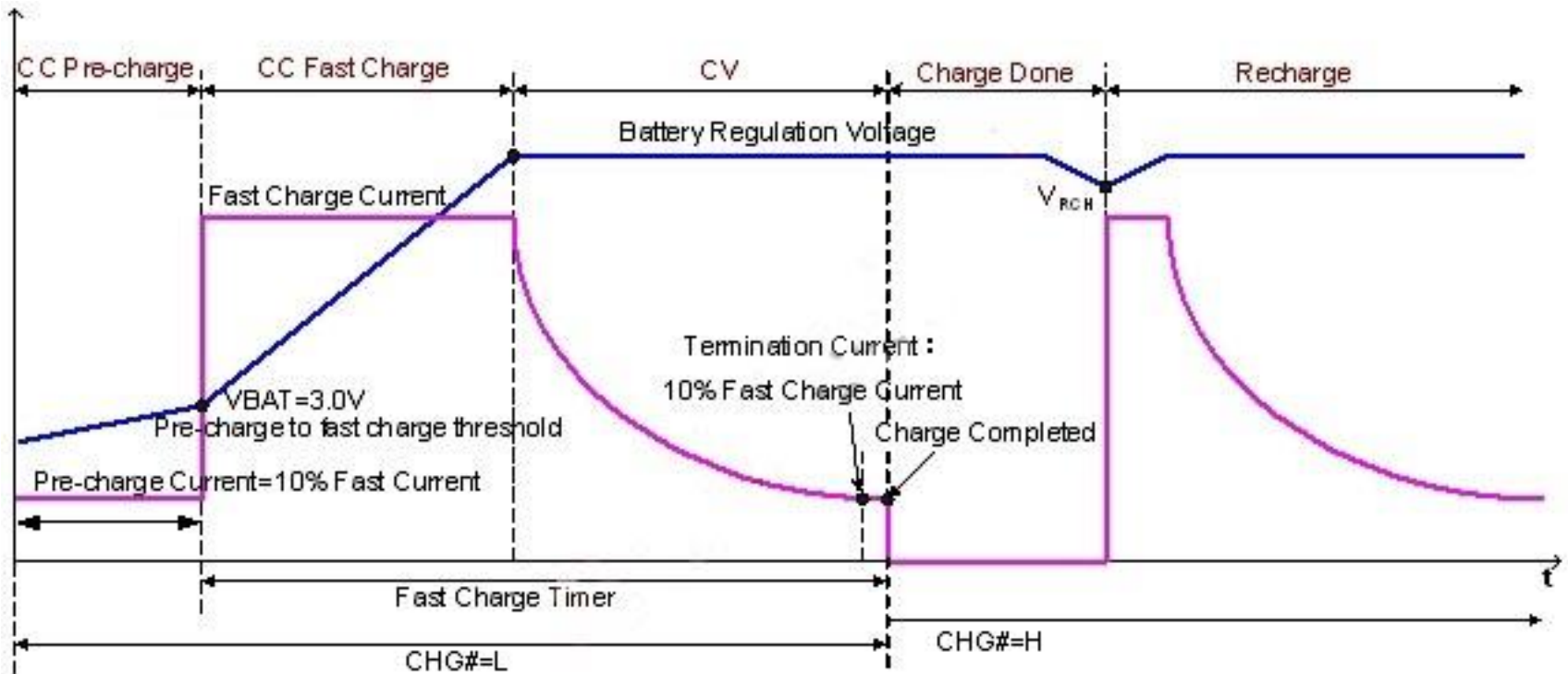
Charging curve
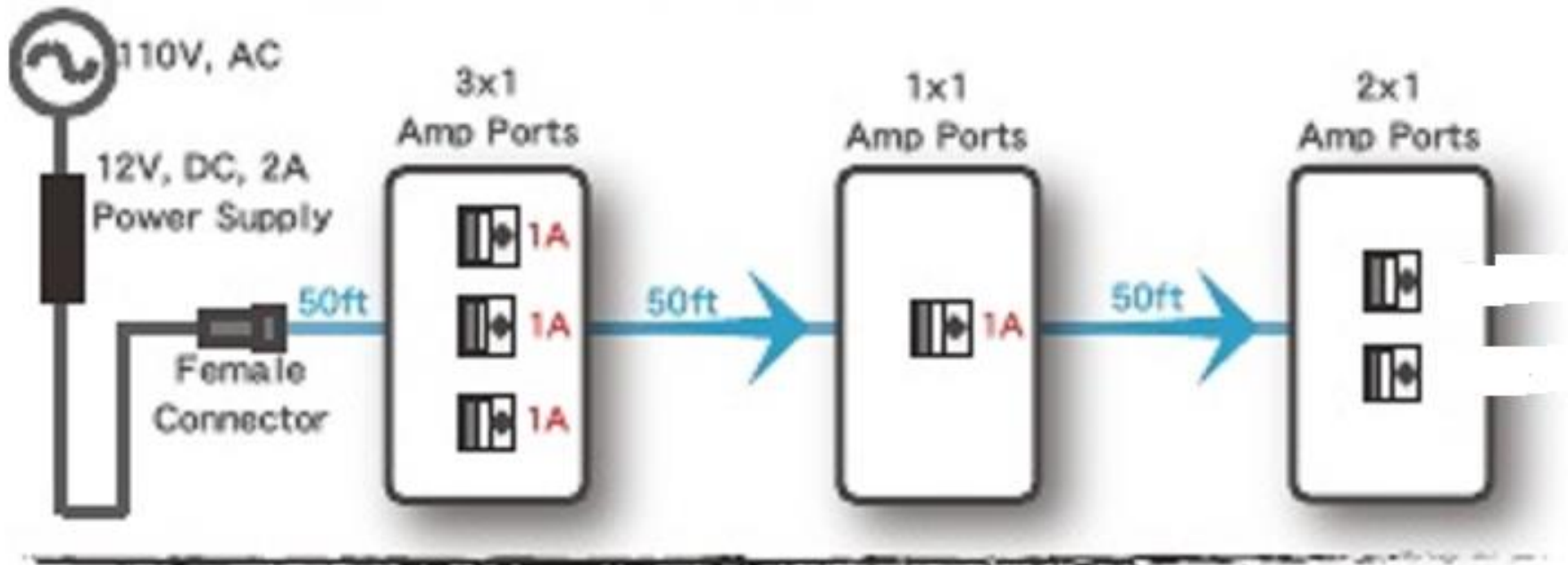
Application Example

Case1: 4 devices are in the fast charging stage

If total power is: 12V x 2A = 24 Watt

When device in the fast charging mode, it will require 5 Watt each, So 4 devices:

5 Watt x 4 devices = 20Watt, which is less than 24 Watt.

Application Example

Case2: 4 devices are in the fast charge stage (start charging from 0%)
2 devices needs to be charged (assume from 60%)

If total power is: 12V x 2A = 24 Watt

When device in the fast speed charge, it requires higher current.

So power consumption for these 4 devices is:

0.8Amp *5V + 0.9Amp * 5V + 0.8Amp * 5V + 0.9Amp * 5V = 17 Watt

The other 2 devices:

Because when device in the normal charge, it requires regular or less current.

So power consumption for these 2 devices is:

0.4Amp *5V + 0.5Amp * 5V = 4.5 Watt

So total power consumption for 6 devices required is 17 Watt + 4.5 Watt = 21.5 Watt