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(54) **POWER FACTOR CORRECTION CIRCUIT,  
POWER FACTOR CORRECTION ASSEMBLY  
AND ON-LINE UNINTERRUPTIBLE POWER  
SUPPLY COMPRISING SAME**

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#### **ABSTRACT**

The present invention provides a power factor correction circuit, a power factor correction assembly and an on-line uninterruptible power supply including the same. The power factor correction circuit comprises a pulse width modulated rectifier and an isolated DC-DC converter, wherein an output of the pulse width modulated rectifier is connected to an input of the isolated DC-DC converter. The power factor correction assembly comprises a plurality of power factor correction circuits described above, wherein inputs of pulse width modulated rectifiers in the plurality of power factor correction circuits are connected in series, and outputs of isolated DC-DC converters in the plurality of power factor correction circuits are connected in parallel. The power factor correction assembly of the present invention needs no line-frequency transformer and has the advantages of small size, low cost and improved operation reliability.

