

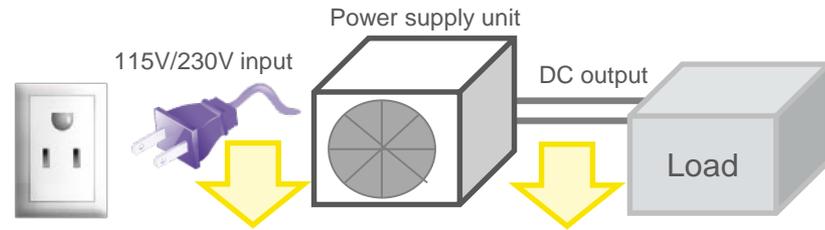
# Conversion Efficiency to Satisfy the 80PLUS Standard

## High-accuracy Measurement of Power Conversion Efficiency

The 80PLUS is a standard used for indicating the power conversion efficiency of power supply units for computer. This standard specifies the conversion efficiency (such as 80% or higher) from AC input to DC output in power supply units that output DC voltage at multiple levels used in desktop and server computers, and it issues certification to products that have achieved certain target values.

The WT3000E Precision Power Analyzer enables measurement with the highest accuracy in the world (basic power accuracy:  $\pm 0.04\%$ ). The WT3000E can measure the AC voltage, current, power, frequency and power factor at the input side and the DC voltage, current, power and other parameters at the output side.

### PC, server, and data center power supply evaluation



80 PLUS Program  
[www.80plus.org](http://www.80plus.org)



WT3000E



Starting from the lowest, the six conversion efficiency rankings are Standard, Bronze, Silver, Gold, Platinum, and Titanium.

### Ranking based on conversion efficiency

80 PLUS	115 V Redundancy				230 V Nonredundant			
Power Load Factor	10%	20%	50%	100%	10%	20%	50%	100%
80 PLUS STANDRD			80%	80%	80%			
80 PLUS BRONZE			82%	85%	82%		81%	85%
80 PLUS SILVER			85%	88%	85%		85%	89%
80 PLUS GORLD			87%	90%	87%		88%	92%
80 PLUS PLATINUM			90%	92%	89%		90%	94%
80 PLUS TITANIUM			90%	92%	94%		90%	96%



Display of input and output data



Display of numerical and waveform data