

MEAN WELL Green Adaptors Comply with EuP Regulation

2009.05.05

Published on 2009.04.06, Official Journal of the European Union, Commission Regulation (EC) No 278/2009 announced that the “Eco-design Requirements for Energy-Using Product Directive 2005/32/EC” (EuP) for external power supplies would put into effect on 2009.04.26. The eco-design regulation requires all external adaptors enter the European Union should comply with certain limitation for “no load power consumption” and “average active efficiency”. The first step which will come into force on 2010.04.26 requires for:

- The no-load condition power consumption shall not exceed $0.5W (P_o \leq 250W)$
- Average active efficiency shall not be less than

Output Power ~ P_o	Average Active Efficiency (%)
$P_o < 1W$	$0.50 \cdot P_o$
$1W \leq P_o \leq 51W$	$0.09 \cdot \ln(P_o) + 0.50$
$P_o > 51W$	0.85

The second step which will come into force on 2011.04.26 requires for:

- The no-load condition power consumption shall not exceed $0.3W (P_o \leq 51W)$ or $0.5W (51W < P_o \leq 250W)$
- Average active efficiency shall not be less than the following limits:

Output Power ~ P_o	Average Active Efficiency (%) (Output Voltage $\geq 6V$)	Average Active Efficiency (%) (Output Voltage $< 6V$)
$P_o \leq 1W$	$0.48 \cdot (P_o) + 0.14$	$0.497 \cdot (P_o) + 0.067$
$1W < P_o \leq 51W$	$0.063 \cdot \ln(P_o) + 0.622$	$0.075 \cdot \ln(P_o) + 0.561$
$P_o > 51W$	0.87	0.86

MEAN WELL has announced the introduction of full series 12~220W green adaptors that comply with the requirement of “STEP 1” while some of them even can fulfill the limitation of “STEP 2” of EuP regulation. Please refer to the “**Compliance List of EuP External Supply**” below and you can get more idea about our green adaptors which may save you plenty of expensive energy!

Compliance List of EUP

2009.05.05

Model Series	5V	7.5V	9V	12V	15V	18V	19V	20V	24V	28V	48V
GS12	1	1	1	1	1	1	----	----	1	----	----
GS18	1	1	1	1	1	1	----	----	1	1	1
GS25	1	1	1	1	1	1	----	----	1	1	1
GS40	2	2	2	2	2	2	----	----	2	----	2
GS60	1	1	1	2	2	2	----	----	2	----	2
GS90	----	----	----	2	2	----	2	----	2	----	2
AS-120P	----	----	----	1	1	----	----	1	2	----	2
GS220	----	----	----	2	2	----	----	2	2	----	2
1 : Pass EUP step1 2 : Pass EUP step2 ---- : Not available											