

US DEPARTMENT OF ENERGY REGULATION MANDATES HIGHER EFFICIENCY REQUIREMENTS ON EXTERNAL POWER SUPPLIES

On February 10, 2014, the U.S. Department of Energy (DOE) released revised efficiency requirements for external power supplies. The amended standard changes the current EISA 2007 Efficiency Level IV to Efficiency Level VI for certain external power supply products and are aimed at prescribing a minimum average efficiency during active mode and a maximum power consumption level during no-load mode. A few highlights for the new regulation are summarized below:

- Tightens the current EISA2007 active-mode and no-load efficiency requirements
- Raises the EPS output power level to > 250 watts
- Expands the range of products to include multiple-voltage EPS

Compliance for the Level VI standard becomes mandatory for product manufactured in, or imported into the United States starting on February 10, 2016. Legacy products with Efficiency Level IV or Level V manufactured and imported prior to February 10, 2016 can still be shipped provided that their date code is prior to the transition date.

The below link to the Final Rule from **Regulations.gov** provides detailed information on the regulation and defines the Energy Conservation Standards for Direct Operation EPS starting February 10, 2016:

<http://www.regulations.gov/#!documentDetail;D=EERE-2008-BT-STD-0005-0219>

IMPORTANT NOTICE WITH IMPACT ON EXTERNAL POWER SUPPLY PRODUCTS

CONDOR ELECTRONICS is in the process of reviewing all external power supply products for compliance with the upcoming Level VI regulation. All linear transformer products cannot comply with the revised standards and must be discontinued and go End-Of-Life (EOL). Most current switching power supply designs require change to meet the revised Level VI standards. On the following pages are a summary of affected items for reference. Please contact your sales representative with any questions regarding the change and to receive detailed Level VI part numbers and status.

SWITCHING POWER SUPPLIES AFFECTED BY ENERGY EFFICIENCY STANDARD

Online Item Number	Condor Part Number
SM3-5V0/12V0/-12V0-20W	SA-0303-02
S-3V3-3A0-U30	SA-033A0W
S-5V0-1A0-EV30	SA-051A0EV
S-5V0-1A0-U30-USB	SA-051A0P-USB
S-5V0-1A0-UV30	SA-051A0V
S-5V0-1A2-U30	SA-051A2P
S-5V0-1A2-U30-MICB	SA-051A2P-MICB
S-5V0-1A2-UV30-USB	SA-051A2V-USB
S-5V0-1A5-U30	SA-051A5P-US
S-5V0-1A5-U30	SA-051A5W
S-5V0-2A0-EV30	SA-052A0EV
S-5V0-2A0-U30-MICB	SA-052A0P-MICB
S-5V0-2A0-U30-MINIB	SA-052A0P-MINIB
S-5V0-2A0-UV30	SA-052A0V
S-5V0-2A0-UV30-MINIB	SA-052A0V-MINIB
S-5V0-2A0-A30	SA-052A0W-AUS
S-5V0-2A1-U30-USB	SA-052A1P-USB
S-5V0-2A1-UV30-USB	SA-052A1V-USB
S-5V0-2A5-UG30	SA-052A5G
S-5V0-2A5-I2-30	SA-052A5I-2W
S-5V0-2A5-U30	SA-052A5P
S-5V0-2A5-U30	SA-052A5W
S-5V0-2A6-U30	SA-052A6P
S-5V0-3A0-IDG30	SA-053A0IV
S-5V0-3A0-U30	SA-053A0P
S-5V0-3A6-IDG30	SA-053A6IV
S-5V0-4A0-IDG30	SA-054A0IV
S-5V0-4A0-UV30	SA-054A0V
S-5V0-4A0-U30	SA-054A0W
S-5V9-6A0-IDG30	SA-056A0IV
S-5V0-6A5-IDG30	SA-056A5IV
S-5V0-6A5-I2-30	SA-056A5IV-2W
S-6V0-1A0-U30	SA-061A0P
S-6V0-1A0-UV30	SA-061A0V
S-6V0-1A0-U30	SA-061A0W
S-6V0-2A0-IDG30	SA-062A0IV
S-6V0-2A5-U30	SA-062A5P
S-6V0-3A0-IDG30	SA-063A0IV

Online Item Number	Condor Part Number
S-6V0-3A5-IDG30	SA-063A5IV
S-7V5-0A8-U30	SA-070A8P
S-7V5-1A4-U30	SA-071A4P
S-7V5-2A0-IDG30	SA-072A0IV
S-7V5-3A0-IDG30	SA-073A0IV
S-7V5-3A0-U30	SA-073A0P
S-9V0-0A56-EV30	SA-090A5EV
S-9V0-0A56-UV30	SA-090A5V
S-9V0-0A6-U30	SA-090A6P
S-9V0-1A2-I2-30	SA-091A2I-2W
S-9V0-1A2-U30	SA-091A2W
S-9V0-1A7-U30	SA-091A7P
S-9V0-2A0-IDG30	SA-092A0IV
S-9V0-2A0-U30	SA-092A0P
S-9V0-2A5-IDG30	SA-092A5IV
S-9V0-2A5-U30	SA-092A5W
S-9V0-2A6-U30	SA-092A6P
S-9V0-4A0-IDG30	SA-094A0IV
S-9V0-4A0-I2-30	SA-094A0IV-2W
S-9V0-5A0-IDG30	SA-095A0IV
S-9V0-5A0-I2-30	SA-095A0IV-2W
S-12V0-0A5-U30	SA-120A5P
S-12V0-0A5-UV30	SA-120A5V
S-12V0-12A5-IDG30	SA-1212A5IV
S-12V0-16A0-IDG30	SA-1216A0IV
S-12V0-1A0-UDG30	SA-121A0DG
S-12V0-1A0-EV30	SA-121A0EV
S-12V0-1A0-UG30	SA-121A0G
S-12V0-1A0-I2-30	SA-121A0I-2W
S-12V0-1A0-UV30	SA-121A0V
S-12V0-1A0-UV30	SA-121A0V
S-12V0-1A0-U30	SA-121A0W
S-12V0-1A25-U30	SA-121A25P
S-12V0-1A5-UG30	SA-121A5G
S-12V0-1A5-IDG30	SA-121A5IV
S-12V0-1A5-IDG30	SA-121A5IV
S-12V0-1A5-IDFG-30	SA-121A5IVG
S-12V0-1A5-U30	SA-121A5P

Online Item Number	Condor Part Number
S-12V0-1A5-U30	SA-121A5W
S-12V0-1A6-I2-30	SA-121A6IV-2W
S-12V0-1A6-UV30	SA-121A6V
S-12V0-2A0-EV30	SA-122A0EV
S-12V0-2A0-IDG30	SA-122A0IV
S-12V0-2A0-I2-30	SA-122A0IV-2W
S-12V0-2A0-UV30	SA-122A0V
S-12V0-2A0-U30	SA-122A0W
S-12V0-2A5-IDG30	SA-122A5IV
S-12V0-2A5-U30	SA-122A5P
S-12V0-2A5-U30	SA-122A5W
S-12V0-3A0-IDG30	SA-123A0IV
S-12V0-3A0-U30	SA-123A0P
S-12V0-3A0-U30	SA-123A0W
S-12V0-3A3-IDG30	SA-123A3IV
S-12V0-3A3-I2-30	SA-123A3IV-2W
S-12V0-3A3-U30	SA-123A3W
S-12V0-4A2-IDG30	SA-124A2IV
S-12V0-4A2-I2-30	SA-124A2IV-2W
S-12V0-5A0-E30	SA-125A0E
S-12V0-5A0-IDG30	SA-125A0IV
S-12V0-5A0-I2-30	SA-125A0IV-2W
S-12V0-5A0-U30	SA-125A0W
S-12V0-8A0-IDG30	SA-128A0IV
S-13V5-4A4-IDG30	SA-134A4IV
S-13V5-7A1-IDG30	SA-137A1IV
S-13V5-8A0-IDG30	SA-138A0IV
S-15V0-0A4-U30	SA-150A4P
S-15V0-0A8-UV30	SA-150A8V
S-15V0-0A8-U30	SA-150A8W
S-15V0-1A0-UV30	SA-151A0V
S-15V0-1A2-UG30	SA-151A2G
S-15V0-1A2-IDG30	SA-151A2IV
S-15V0-1A2-I2-30	SA-151A2IV-2W
S-15V0-1A2-U30	SA-151A2P
S-15V0-1A6-I2-30	SA-151A6IV-2W
S-15V0-1A6-UV30	SA-151A6V
S-15V0-2A0-IDG30	SA-152A0IV
S-15V0-2A0-IDFG30	SA-152A0IVG
S-15V0-3A3-IDG30	SA-153A3IV

Online Item Number	Condor Part Number
S-15V0-4A0-IDG30	SA-154A0IV
S-15V0-6A4-IDG30	SA-156A4IV
S-15V0-6A4-IDG30	SA-156A4IV
S-16V0-4A07-IDG30	SA-164A07IV
S-16V0-5A6-I3G30	SA-165A6IV
S-18V0-0A28-EV30	SA-180A28EV
S-18V0-0A28-UV30	SA-180A28V
SA-18V0-1A0-IDG30	SA-181A0IV
S-18V0-1A0-U30	SA-181A0P
S-18V0-1A1-UV30	SA-181A1V
S-18V0-1A6-IDG30	SA-181A6IV
S-18V0-1A6-U30	SA-181A6W
S-18V0-2A0-IDG30	SA-182A0IV-2W
S-18V0-2A7-IDG30	SA-182A7IV
S-18V0-3A6-IDG30	SA-183A6IV
S-18V0-5A3-IDG30	SA-185A3IV
S-19V0-10A5-IDG30	SA-1910A5IV
S-19V0-2A1-U30	SA-192A1P
S-19V0-2A64-IDG30	SA-192A64IV
S-19V0-3A42-IDG30	SA-193A42IV
S-19V0-3A42-IDG30	SA-193A4IV
S-19V0-3A79-IDG30	SA-193A79IV
S-19V0-5A0-IDG30	SA-195A0IV
S-19V0-8A4-IDG30	SA-198A4IV
S-20V0-10A0-IDG30	SA-2010A0IV
S-20V0-2A0-U30	SA-202A0P
S-20V0-2A5-IDG30	SA-202A5IV
S-20V0-3A2-IDG30	SA-203A2IV
S-20V0-4A5-I3G30	SA-204A5IV
S-24V0-0A21-EV30	SA-240A21EV
S-24V0-0A21-UV30	SA-240A21V
S-24V0-0A25-U30	SA-240A25P
S-24V0-0A5-EV30	SA-240A5EV
S-24V0-0A5-I2-30	SA-240A5I-2W
S-24V0-0A5-UV30	SA-240A5V
S-24V0-0A5-U30	SA-240A5W
S-24V0-0A63-U30	SA-240A63P
S-24V0-1A0-EV30	SA-241A0EV
S-24V0-1A0-UV30	SA-241A0V
S-24V0-1A0-UV30	SA-241A0V

Online Item Number	Condor Part Number
S-24V0-1A25-IDG30	SA-241A25IV
S-24V0-1A25-IDFG30	SA-241A25IVG
S-24V0-1A25-U30	SA-241A25W
S-24V0-1A7-U30	SA-241A7P
S-24V0-2A5-U30	SA-242A5W
S-24V0-2A71-IDG30	SA-242A71IV
S-24V0-2A7-IDG30	SA-242A7IV
S-24V0-3A0-IDG30	SA-243A0IV
S-24V0-3A0-I2-30	SA-243A0IV-2W
S-24V0-3A75-I3G30	SA-243A75IV
S-24V0-4A0-IDG30	SA-244A0IV
S-24V0-6A6-IDG30	SA-246A6IV
S-24V0-8A3-IDG30	SA-248A3IV
S-32V0-2A0-IDG30	SA-322A0IV
S-48V0-0A5-UV30	SA-480A5V
S-48V0-0A75-IDG30	SA-480A75IV
S-48V0-1A36-IDG30	SA-481A36IV
S-48V0-2A08-IDG30	SA-482A0IV
S-48V0-3A3-IDG30	SA-483A3IV
S-48V0-4A2-IDG30	SA-484A2IV

LINEAR TRANSFORMERS DISCONTINUED - EOL

Online Item Number	Condor Part Number
A-12V0-0A2-U12	D12200
A-12V0-0A5-U12	A12500CEC
A-12V0-0A7-B23	WPA-12700-BSI
A-12V0-0A7-E23	WPA-12700-230
A-12V0-1A0-U12	D12-10-1000
A-12V0-1A1-U12	A12-1A
A-12V0-1A5-UG12	D12-16-D
A-12V0-1A5-UG12	WP481812CG
A-12V0-2A0-U12	WP572412
A-17V0-0A7-IDG23	PS481217CG-230
A-17V0-0A7-UG12	WP481217CG
A-18V0-2A2-IDG23	PS604018CG-230
A-18V0-2A2-UDG12	PS604018CG
A-24V0-0A25-U12	41-24-250D

Online Item Number	Condor Part Number
A-24V0-0A4-U12	A12-10-04C
A-24V0-1A0-U12	A24-1A
A-24V0-1A6-IDG23	PS604024CG-230
A-24V0-1A6-U12	A24-166
A-24V0-1A6-UDG12	PS604024CG
A-5V0-0A5-E23	WPA-5500-230
A-5V0-0A5-U12	A5500
A-9V0-0A5-U12	A9500
A-9V0-1A0-B23	WPA-091A-BSI
A-9V0-1A0-E23	WPA-091A-230
A-9V0-1A0-U12	A9-1A
A-9V0-1A8-U12	A91A8
D-12V0-0A2-U12	D12200
D-12V0-0A5-U12	12500CEC
D-12V0-1A0-UG12	D121AG

Online Item Number	Condor Part Number
D-24V0-0A1-U12	D9300-06
D-3V0-0A1-U12	D6100-04
D-3V0-0A5-U12	D3500
D-6V0-0A1-U12	D6100
D-6V0-0A2-U12	D6200A
D-6V0-0A3-U12	D6300
D-6V0-0A8-U12	D6-10
D-7V5-0A2-U12	D7200
D-7V5-0A8-U12	D7-10
D-7V5-1A0-U12	D7-1A
D-9V0-0A2-U12	D9200CEC
D-9V0-0A3-U12	D9300CEC
D-9V0-0A5-U12	D9500CEC
D-9V0-1A0-U12	D9-1A
D-9V0-1A0-UD12	PS91A
D-9V0-1A2-U12	D9-12