

E3616A-04

# Information Only Service Note

Supersedes:  
NONE

## E3616A DC Power Supply

Serial Numbers: ALL

**The Problem** – E3616A DC Power Supply will be replaced by E3643A/U8001A DC Power Supply

### Parts Required:

P/N	Description	Qty.
E3643-66014	E3643A Opt OEM GSA	1
U8001-66003	U8001A Opt OE3	1
U8001-66001	U8001A Opt OE9	1

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### ADMINISTRATIVE INFORMATION

Calibration Required  
 Calibration NOT Required

PRODUCT LINE: SP  
AUTHOR: KHEW

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ADDITIONAL INFORMATION:

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**Situation:**

E3616A DC power supply has been discontinued on December 1, 2013, and is currently under 5-years product support period starting from the discontinuance date. In conjunction with this discontinuance, E36443/U8001A DC power supply has been identified as a replacement for E3616A DC power supply.

The E3643A/U8001A DC power supply is available, providing higher DC output ratings and added IO connectivity (E3643A). Please refer to the table below for the comparison between E3643A/U8001A and E3616A DC power supply.

Features	E3643A	U8001A	E3616A
Number of Output	1	1	1
Number of Output Ranges	2	1	1
Input Terminals	Front and Rear	Front	Front and Rear
DC Output Ratings	35V, 1.4A 60V, 0.8A	30V, 3A	20V, 3A
Load and Line Regulation	<0.01% + 3mV	<0.01% + 2mV	<0.01% + 2mV
<b>Ripple and Noise (20Hz to 20Mhz)</b>			
Normal Mode Voltage	<1mVrms/8mVpp	<1mVrms/12mVpp	<200µVrms/1mVpp
Normal Mode Current	<4mArms	<3mArms	<2mArms
Transient Response Time	<50µSec	<50µSec	<50µSec
Meter Accuracy (25°C±5°C)	± (0.05% + 2 Counts)	<0.35% + 20 mV/mA	± (0.5% + 2 Counts)
Meter Resolution	10mV	10mV	100mV
	1mA	10mA	10mA
IO Connectivity	GPIO, RS-232	N/A	N/A
Dimension	212.6 mm W x 88.5 mm H x 348.3 mm D	212.3 mm W x 88.1 mm H x 394.3 mm D	212.3 mm W x 88.1 mm H x 373.4 mm D

For customer repair, we will offer a E3643A/U8001A as replacement for the defective E3616A. Please refer to the table below for the new replacement model and support part number.

Defective Model	New Replacement Model	Support Part Number
E3616A Opt OEM GSA	E3643A Opt OEM GSA	E3643-66014
E3616A Opt OE3	U8001A Opt OE3	U8001-66003
E3616A Opt OE9	U8001A Opt OE9	U8001-66001

**Solution/Action:**

Please contact your nearest Keysight Technologies Service Center if your power supply needs repair. Keysight Technologies will offer a E3643A/U8001A DC power supply as replacement for the defective E3616A.

**Revision History:**

Date	Service Note Revision	Author	Reason for Change
6 Mar 2017	01	KHEW	As Published