

UR Series

Redesigned UR-SH Power Supply Module

Product Notification

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Summary

The power supply module of UR devices has been redesigned for increased reliability and extended life cycle.

UR devices support power supply modules for "HI" voltage and "LO" voltage ranges. The "HI" voltage range module has been redesigned and functionality has been added. A quick look at the new features is as follows:

- Extended input voltage range: 88 to 400 V DC (previously 88 to 300 V DC)
- Increased output power: 45 W (previously 35 W)
- Higher efficiency: More power but no more heat (28% improved efficiency)
- Voltage rail monitoring: All rails (previously CPU module dependent)
- Number of electrolytic capacitors: One (previously 27). Functionality of this capacitor limited to Ride-Through, then availability of the power supply module does not depend on this electrolytic capacitor.
- Over temperature protection: Module turns-off at 105°C
- Increase isolation voltage level: 2300 V AC (previously 2000 V AC)
- Complete compatibility: Direct replacement of all previous and existing power supply modules (old UR-1H and existing UR-RH)
- Extended life expectancy: Up to 40 years at 45°C and full load

The redesigned power supply module is named "SH." Order code details follow. UR devices shipped since April 2014 are already equipped with the new SH power supply module.

GE Digital Energy is updating UR documentation and ordering tools to shown/add the new revision of the power supply module.

Background

UR Power supply modules (HI voltage range):

- 1st generation UR-1H
- 2nd generation UR-RH
- New UR-SH (June 2014). This redesigned version of the power supply module is a direct replacement of previous models.

Units Affected

All UR devices, UR replacement kits, and individual power supply modules.

The RH power supply module has been taken out of production and replaced by the SH module.

Recommendation

The redesigned UR-SH power supply module is compatible with existing and previous UR hardware. Other than the features described, functionality of UR devices is not affected by the SH power supply module. The SH power supply module can be ordered as a direct replacement of any previous power supply module.

For UR devices with redundant power supply configuration, ensure that both power supply modules match the module type, for example SH and SH, RH and RH, or 1H and 1H. Mixing the SH power supply module with a previous version (RH or 1H) in a redundant configuration can lead to damage of one or both power supply modules.

For UR devices with redundant power supply, swap both power supplies when switching from RH to SH.

UR Power Supply Module Order Code

The order code of a UR device and UR replacement kits are not affected by the SH power supply module; the SH order code applies to replacement modules.

| UR PWR Supply module | UR | - | * | * | * | For individual module ordering | |
|--------------------------|----|---|---|---|---|--|--------------------------|
| | | | | | | | |
| Power Supply Type | | | S | | | New Power Supply module (Rev B, 2014) | Available since Jun-2014 |
| Voltage Range | | | H | | | 125 / 250 V AC/DC Standard - 125 / 300 V AC/DC New | |
| Mount / Coating | | | | | A | Horizontal (19" rack) - Harsh Environment Coating | |
| | | | | | B | Vertical (3/4 size) - Harsh Environment Coating | |

All SH power supply modules are conformal coated.

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