

STANDARDS UPDATE NOTICE (SUN) ISSUED: August 17, 2023

STANDARD INFORMATION

Standard: UL 61800-5-1

Standard ID: Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements -

Electrical, Thermal and Energy [UL 61800-5-1:2022 Ed.2]

Previous Standard ID: Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy [UL 61800-5-1:2012 Ed.1+R:11Feb2021]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: October 1, 2024

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Primary Rechargeable Battery Back-up
- VFD Output Conductor Protection

Specific details of new/revised requirements are found in table below

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.
Annex DVC	Info	Isolated Secondary Circuits and Circuits Supplied by Battery
DVC.3	Info	Circuits Supplied by a Battery
DVC.3.5		New section added;
		Primary rechargeable battery back-up
		This section applies to battery systems operating as a short period backup for the DC bus voltage of a single BDM/CDM/PDS to ensure a time limited operation in case of supply power interruption or loss. The primary rechargeable battery backup system consists of a battery pack, a DC to DC converter circuit to feed the DC bus and a battery charging circuit supplied by the DC bus of the BDM/CDM/PDS.
		See standard for details.
Annex DVI		New annex added;
		Output Motor Conductor Protection
		The requirements in this section are applicable only to BASIC DRIVE MODULES/COMPLETE DRIVE MODULE consisting of a single INVERTER SECTION intended to control a single motor and provide output motor conductor protection independent of the AC input branch circuit protection.
		See standard for details.