

# American National Standard

*for Personal Transport Vehicles –  
Safety and Performance Specifications*

ANSI/OPEI Z135-2020



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**ANSI/OPEI Z135-2020**

Revision and redesignation of  
ANSI/ILTVA Z135-2012

American National Standard

**for Personal Transport Vehicles –  
Safety and Performance Specifications**

Sponsor

**Outdoor Power Equipment Institute**

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## American National Standard

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## Contents

	Page
Foreword .....	ii
<b>Part I: Introduction</b>	
1    Scope and purpose .....	1
2    Normative references .....	1
3    Definitions .....	3
 <b>Part II: Maintenance and Operations</b>	
4    General safety practices .....	6
5    Maintenance .....	7
6    Fuels handling and storage/battery charging .....	8
7    Operating safety rules and practices (Operator and passenger qualifications) .....	9
 <b>Part III: Manufacturer's Requirements</b>	
8    General requirements .....	10
9    Electric-powered vehicles .....	23
10   Internal combustion powered vehicles .....	25
 <b>Tables</b>	
1    PTV headlamp photometric specification - Upper beam .....	13
2    PTV headlamp photometric specification - Lower beam .....	13
 <b>Figures</b>	
1    First and second restraint reference points .....	15
2    Positioning of occupant test weights .....	18
3    Longitudinal test position .....	19
4    Vehicle placement on lateral tilting platform (four wheel) .....	20
 <b>Annexes</b>	
A    Rationale (Informative) .....	28

## **Foreword** (This foreword is not part of American National Standard ANSI/OPEI Z135-2020.)

This is the third edition (second revision) of *American National Standard - Personal Transport Vehicles - Safety and Performance Specifications*, ANSI/OPEI Z135-2020. The first edition of the standard was published in 2004. The first two editions were developed under the auspices of the International Light Transportation Vehicle Association (ILTVA). This revision was prepared by the OPEI Z130.1 / Z135 Golf Car and PTV Committee, as part of OPEI's continuing work on standards.

A summary of the principal changes included in this revision follows:

- Several definitions were added or revised;
- The vehicle identification number requirements were revised;
- Safety warnings were revised to specify warnings for both occupants and operators;
- Lighting and Markings, Horns and Mirrors, and General Configuration requirements were revised;
- Previous fuel system requirements were replaced with the requirement to comply with ANSI/OPEI B71.10.

The standard contains no normative annexes. The standard contains one informative annex, Annex A, Rationale.

Consensus for this standard was developed by use of the Canvass Method, as well as through public consultation in ANSI Standards Action.

Suggestions for improvement of the standard are welcome. They should be sent to the Outdoor Power Equipment Institute, 1605 King Street, Alexandria, VA 22314, or via e-mail to info@opei.org.

The persons listed below were recognized as having an interest in the standardization of Personal Transport Vehicles and were included on the consensus body. Additional stakeholders were recognized as having an interest, however OPEI was unable to make contact with these stakeholders, or they declined to participate. Inclusion in this list does not necessarily imply that all organizations concurred with the submittal of the proposed standard to ANSI.

Geoff Stewart, Chair  
(Club Car, LLC)

### **Z130.1-2020 Consensus Body**

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## American National Standard

# for Personal Transport Vehicles – Safety and Performance Specifications

## PART I: INTRODUCTION

### 1 Scope and purpose

#### 1.1 Scope

This standard provides safety and performance specifications relating to personal transport vehicles (PTVs), driven by electric motors or internal combustion engines to be operated on designated roadways, or within a closed community where permitted by law or by regulatory authority rules.

This standard does not apply to:

- golf cars, which are covered by ANSI/OPEI Z130.1 (formerly ANSI/ILTV A Z130.1);
- personnel and burden carriers, which are covered by ANSI/ITSDF B56.8;
- low speed vehicles, which are covered by SAE J2358;
- autonomous vehicles;
- hybrid electric vehicles (powered by a combination of an internal combustion engine and a battery with an electric motor);
- vehicles designed for the transportation of persons with disabilities.

The effective implementation date of this standard shall be two (2) years after the publication date and shall apply to all products built after that date. Newly manufactured PTVs may also comply with the requirements of this standard any time after the publication date.

NOTE – The units in this standard are given in metric. English units are included in parentheses for information only.

#### 1.2 Purpose

The purpose of this standard is to promote safety in the design, manufacture, maintenance and operation of PTVs. This standard may be used as a guide by regulatory authorities desiring to formulate safety rules and regulations. This standard is also intended for voluntary use by others associated with manufacturing, maintaining or utilizing PTVs.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication of this standard, the editions indicated were valid. However, all publications and standards are subject to revision and obsolescence. Accordingly, users are encouraged to investigate the possibility of applying the most recent editions of the standards referenced herein.

ANSI Z535.1, *Safety colors*

ANSI Z535.3, *Criteria for safety symbols*

ANSI Z535.4, *Product safety signs and labels*

ANSI/OPEI Z130.1, *Golf cars – Safety and performance specifications*