

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC 60364-8-1
Edition 2.0 2019-02

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –
Part 8-1: Functional aspects – Energy efficiency

CORRIGENDUM 1

2 Normative references

Replace the reference to IEC 61557-12:2007 with the following new reference:

IEC 61557-12, *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 12: Power metering and monitoring devices (PMD)*

4.1.3 Design principles

Replace the first dashed item with the following new item:

– load energy profile (active and reactive energy);

8.3.1.2 Requirements on accuracy and measuring range

Table 1

In the first row, second column, replace "IEC 62052-22" with "IEC 62053-22". In the second and third rows, third column, replace "PMD-1", "PMD-2" and "PMD-3" with "PMD-I", "PMD-II" and "PMD-III" respectively, as shown:

Measurement application	Applicable IEC product standards	Device name according to standards	Usual device name	Complementary explanations
Billing (Contractual)	or IEC 62053-21 or IEC 62053-22	Electricity metering equipment	Revenue meter, electricity meter, utility meter	Energy metering for billing applications (e.g. utility invoicing a landlord or a mall owner, sub-billing to tenants)
Energy usage analysis	IEC 61557-12 ^a	Power metering and monitoring device (PMD-I or PMD-II or PMD-III)	Power meter, energy meter	Energy cost and usage analysis (for cost allocation or sub-billing within a company or for energy efficiency purposes)
Power monitoring	IEC 61557-12 ^b	Power metering and monitoring device (PMD-II or PMD-III)	Power meter, energy meter	Demand side power quality analysis and energy cost and usage analysis

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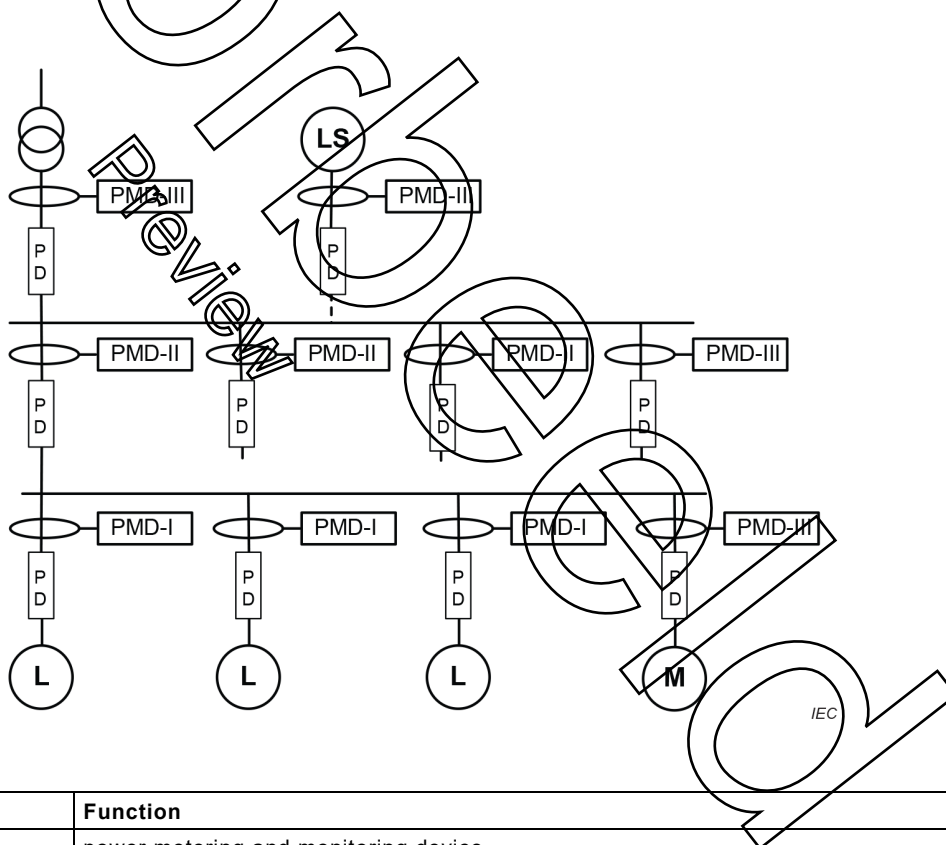
Energy estimation		Indicator or sensor	Energy estimator	Devices for giving information needed to correctly operate the energy management system, for example running time of equipment, number of operation, basic measurement
<p>^a Devices used for power quality monitoring, when they provide active energy measurement function, can be used for energy usage analysis.</p> <p>^b Devices used for power quality monitoring in accordance with IEC 62586-1 can be used for power monitoring especially where comparable measurements are needed.</p> <p>NOTE Other information such as occupancy, number of operations, manufacturing figures, is provided by different instruments and are covered by other standards.</p>				

8.3.1.3 Measurement

Replace, in the 3 dashed list items, in the third paragraph, "PMD-1", "PMD-2" and "PMD-3" with "PMD-I", "PMD-II" and "PMD-III" respectively.

Figure 3

Replace Figure 3, including the Key, with the following new Figure 3 and Key:



Key

Symbol	Function
PMD	power metering and monitoring device
PMD-I	PMD including at least: E_a
PMD-II	PMD including at least: $P, Q, S, E_a, E_r, f, I, U$ and/or $V, PF,$
PMD-III	PMD including at least: $P, Q, S, E_a, E_r, E_{ap}, f, I, I_N, U$ and/or V, PF, THD_U and/or THD_V and/or $THD-R_U$ and/or $THD-R_V, THD_I$ and/or $THD-R_I$
P	total active power
E_a	total active energy
Q	total reactive power
S	total apparent power

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