



IEC and CENELEC Standard Naming Conventions: 60601-1-2 4th Edition vs. EN 60601-1-2:2015 vs IEC 60601-1-2:2014-02



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The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies. Both Safety and Electromagnetic compliance standards are produced by the IEC.

Virtually all countries in the world rely on and adopt the IEC standards, in part to simplify creating their own standards, and in part to harmonize their country standards with the world. However

most countries choose to not directly use the IEC standards, but instead create derivative standards directly based on the IEC standards. In this way it is possible to add minor changes to the adopted standards on an as needed basis.

CENELEC is the European agency which typically controls the EN standards. Most of the EN electro-technical standards produced by CENELEC are directly derived from IEC standards, and typically the major numeric part of standard name is identical. Differences in the standard number however may occur in the suffix which will typically indicate year of publication as 4 digits. CENELEC and standards published by various countries typically will lag the publication of the IEC standard by one or more years.

Additionally, whereas Edition levels are used for many of the IEC standards to clarify to the user a major change to the standard, this is not practiced in the CENELEC naming convention of EN standards.

The IEC recommends a 5 year allowance for manufacturers to modify their products before the derived national standards, become mandatory, and any conflicting national standards are withdrawn. Therefore when countries adopt a new version/edition of an IEC standard, two key dates are typically specified in the new derived standard:

- DOP, Date of Publication
- DOW, Date of Withdrawal

These two key dates are typically shown within the first 5 pages of an EN specification, and the CENELEC requirements for DOW mostly follow the IEC recommendations.

As an example, let us consider the medical EMC control document IEC 60601-1-2:2014, 4th edition.

The full numeric descriptor of the standard is IEC 60601-1-2:2014-02. The year and month of publication follow the colon which is attached to the primary specification number. Although the 4th edition does not appear in the number, reviewing the Title page of the standard shows it prominently displayed. After this IEC edition was published, subsequently in January 2015, the CENELEC Standard EN 60601-1-2:2015 was ratified. Note, only the year is shown as part of the standard name, the month is not included.

The DOP for the EN 60601-1-2:2015 is 2016-03-18, the DOW is 2018-12-31. After 2018-12-31 all products sold in the EU are required to meet the requirements in this medical EMC standard.



REF: <https://www.cenelec.eu/dyn/www/f?>

p=104:110:974359894211801::::FSP_ORG_ID,FSP_PROJECT,FSP_LANG_ID:1257161,44445,25

GlobTek products compliant with IEC 60601-1-2 4th edition:

Name	Type	Input Voltage	Watts	Vout	Efficiency	Ingress Protection	MOOP	MOPP	60601-1-4th Ed.	IEC 62368-1	Dimensions (mm)
GT-41134-W2-TAB	Wall Plug-in	120V~/60Hz	6	3-24 V	V	IP40			✓		
GTM41076-06VV-QA2MOPP	Wall Plug-in	100-240V~, 50-60 Hz	6	5-30 V	Meets/Exceeds for Medical	IP52 Option		✓	✓		43.5* 74.0* 35.3
GTM41134-WWVVF	Open Frame/Internal	100-240V~, 50-60 Hz	6	3.3-48 V	N/A			✓	✓	✓	84.5*41.5*17.0
GTM41134-WWVVF-WT2	Open Frame/Internal	100-240V~, 50-60 Hz	6	3.3-48 V	N/A			✓	✓	✓	84.5*41.5*17.0
GTM96060-06VV-Q	Wall Plug-in	100-240V~, 50-60 Hz	6	5-36 V	VI	IP52		✓	✓	✓	43.5*74.0*36.8
GTM46101-10VV-1	Wall Plug-in	100-240V~, 50-60 Hz	10	5-5.5 V	VI	Indoor Use		✓	✓	✓	41.0 x 71.0 x 31.5

X.X-USB	in	50-60 HZ									
GTM46 161- 16V.V- USB	Wall Plug- in	100- 240V~, 50-60 Hz	16	5-5.5 V	VI	Indoor Use		✓	✓	✓	41.0 x 71.0 x 31.5
GTM41 080- 18VV- F	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	18	5-48 V	V	IPX0		✓	✓	✓	84.5*41.5*21.6
GTM41 080- 18VV- F	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	18	5-48 V	V	IPX0		✓	✓	✓	74*44*34
GTM96 180- 18VV H/M	Wall Plug- in	100- 240V~, 50-60 Hz	18	4-48 V	VI	IP42		✓	✓		74*43.5*36.8
GTM96 180- 18VV- T2	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		✓	✓		(L)87x(W)47x(H)32mm
GTM96 180- 18VV- T2A	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		✓	✓		(L)87x(W)47x(H)32mm
GTM96 180- 18VV- T3	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		✓	✓		(L)87x(W)47x(H)32mm
GTM96 180- 18VV- T3A	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		✓	✓		(L)87x(W)47x(H)32mm
GTM41 060- 25VV- FW-IM	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	25	3.3- 30 V	Meets/Exce eds for Medical			✓	✓		98*50*28
GTM96 250- 25VV- R2	Wall Plug- in+De sktop Comb inatio n	100- 240V~, 50-60 Hz	25	5-48 V	VI	IP41, IP52 Option available		✓	✓		(L)101.73x(W) 46.47x(H)38.2 mm
GTM91 120- 30VV- F	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	30	5-48 V	V			✓	✓	✓	101.6x50.8x22 .30
GTM91 120- 30VV-F	Open Fram	100- 240V~, 50-60 Hz	30	5-48 V	V			✓	✓	✓	101.6x50.8x22

(PCB Mounted)	e/Internal	240V~, 50-60 Hz	30	V	V		✓	✓	✓		.30
GTM91 120-30VV-FW	Open Frame e/Internal	100-240V~, 50-60 Hz	30	5-48 V	V		✓	✓	✓		101.6x50.8x22.30
GTM91 120-30VV-FW (PCB Mounted)	Open Frame e/Internal	100-240V~, 50-60 Hz	30	5-48 V	V		✓	✓	✓		101.6x50.8x22.30
GTM91 120-30VV-P2	Potted/Encapsulated in plastic housing	100-240V~, 50-60 Hz	30	5-48 V	V		✓		✓		102*46*37
GTM91 120-30VV-P2(SR with NA Plug 2 pin)	Potted/Encapsulated in plastic housing	100-240V~, 50-60 Hz	30	5-48 V	V	IP68	✓	✓	✓		
GTM91 120-30VV-P3	Potted/Encapsulated in plastic housing	100-240V~, 50-60 Hz	30	5-48 V	V	IP68	✓		✓		102*46*37
GTM91 120-30VV-P3 (SR with EU Plug 3 pin)	Potted/Encapsulated in plastic housing	100-240V~, 50-60 Hz	30	5-48 V	V	IP68	✓		✓		
GTM91 120-	Potted/Encapsul										

30VV-P3 (SR with NA Plug 3 pin)	aspirated in plastic housing	100-240V~, 50-60 Hz	30	5-48 V	V	IP68	✓	✓	✓		
GTM91 120-30VV-T2	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	30	5-48 V	V	IP52, IP54 Option available	✓		✓		(L)101.77x(W)47.47x(H)36.7
GTM91 120-30VV-T3A	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	30	5-48 V	V	IP52, IP54 Option available	✓	✓	✓		(L)101.77x(W)47.47x(H)36.7 mm
GTM96 300-36VV-R2	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	36	5-48 V	VI	IP52, IP54 Option available		✓	✓		(L)101.73x(W)46.47x(H)38.2 mm
GTM96 300-36VV-R3A	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	36	5-48 V	VI	IP52, IP54 Option available		✓	✓		(L)101.7x(W)46.47x(H)38.2mm
GTM96 300-36VV-T2	Desktop/External	100-240V~, 50-60 Hz	36	5-48 V	VI	IP42, IP54 Option available		✓	✓		(L)105.0x(W)50.0x(H)35.50mm
GTM96 300-36VV-T2A	Desktop/External	100-240V~, 50-60 Hz	36	5-48 V	VI	IP42, IP54 Option available		✓	✓		(L)105.0x(W)50.0x(H)35.50mm
GTM96 300-36VV-T3	Desktop/External	100-240V~, 50-60 Hz	36	5-48 V	VI	IP42, IP54 Option available		✓	✓		105x(W)50.0x(H)35.0mm
GTM43 007-AWWV V-F	Open Frame/Internal	100-240V~, 50-60 Hz	60	5-48 V	N/A	N/A		✓	✓		76.2x50.8x23.6 for 5V-14V models, 76.2x50.8x22.5 for 15V-48V models Top Diagram i

GTM43 007- AWVV V-F (D3 without standof fs)	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		✓	✓		76.2x50.8x23. 6 for 5V-14V models, 76.2x50.8x22. 5 for 15V-48V modelsTop Diagram i
GTM43 007- AWVV V-FW	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		✓	✓		76.2x50.8x23. 6 for 5V-14V models, 76.2x50.8x22. 5 for 15V-48V models
GTM43 007- AWVV V-FW (D2 without standof fs)	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		✓	✓		76.2x50.8x23. 6 for 5V-14V models, 76.2x50.8x22. 5 for 15V-48V models
GTM43 007- BWWV V-F	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		✓	✓		101.6x50.8x23 .6 for 5V-14V models, 101.6x50.8x22 .5 for 15V-48V models
GTM43 007- BWWV V-FW	Open Fram e/Inte rnal	100- 240V~, 50-60Hz	60	5-48 V	N/A	N/A		✓	✓		101.6x50.8x23 .6 for 5V-14V models, 101.6x50.8x22 .5 for 15V-48V models
GTM43 007- CWWV V-F	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		✓	✓		127x76.2x23.6
GTM43 007- CWWV V-FW	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		✓	✓		127x76.2x23.6
GTM91 099- 60VV- P2	Potte d/Enc apsul ated in plasti c housi ng	100- 240V~, 50-60 Hz	60	5-48 V	V	IP68		✓	✓		144.81*57.11*3 9.0
GTM91 099-	Potte d/Enc	100- 240V~	60	5-48 V	V			✓	✓		

60VV-P3	apsulated in plastic housing	50-60 Hz									
GTM91099-60VV-P3(SR with NA Plug 3 pin)	Potted/Encapsulated in plastic housing	100-240V~, 50-60 Hz	60	5-48 V	V			✓	✓		
GTM91099-60VV-T2	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	60	5-48 V	V	IP42		✓	✓		117.53*53.47*36.6
GTM91099-60VV-T3A	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	60	5-48 V	V	IP52, IP54 Option available		✓	✓		117.53*53.47*36.6
GTM96600-60VV-P2(SR with NA Plug 2 pin)	Potted/Encapsulated in plastic housing	100-240V~, 50-60 Hz	60	5-48 V	VI			✓	✓		144.81*57.11*39.0
GTM96600-60VV.V-R2	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	60	5-54 V	VI	IP40, IP54 Option available		✓	✓		117.53*53.47*36.6
GTM96600-60VV.V-R3A	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	60	5-54 V	VI	IP40, IP54 Option available		✓	✓		117.53*53.47*36.6

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GTM96 600- 60VV.V -T2	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	5-54 V	VI	IP41		✓	✓		117.5*53.5*34. 2
GTM96 600- 60VV.V -T2A	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	5-54 V	VI	IP41		✓	✓		117.5*53.5*34. 2
GTM96 600- 60VV.V -T3	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	5-54 V	VI	IP41		✓	✓		117.5*53.5*34. 2
GTM96 600- 60VV.V -T3A	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	5-54 V	VI	IP41		✓	✓		117.5*53.5*34. 2
GTM96 605- GEN2- R2	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	0 V	VI			✓	✓		
GTM96 605- GEN2- R3A	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	0 V	VI			✓	✓		
GTM96 605- GEN2- T2	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	0 V	VI			✓	✓		
GTM96 605- GEN2- T3	Deskt op/Ex ternal	100- 240V~, 50-60Hz	60	0 V	VI			✓	✓		
GTM96 600- 65VV.V -P2	Deskt op/Ex ternal	100- 240V~, 50-60Hz	65	5-54 V	VI	IP41		✓	✓		117.5*53.5*34. 2
GTM96 600- 65VV.V -P3	Deskt op/Ex ternal	100- 240V~, 50-60Hz	65	5-54 V	VI	IP41		✓	✓		117.5*53.5*34. 2
GTM41 133- 90VV- x.x-F	Open Fram e/Inte rnal	100- 240V~, 50- 400Hz	90	12-48 V	V			✓	✓		184*62*25
GTM41 133- 90VV- x.x-T2	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	90	12-48 V	V	IP21		✓	✓		149.38 x 62.6 x 33.5 +/-1.0 mm
GTM41 133- 90VV- x.x-T3	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	90	12-48 V	V	IP21		✓	✓		149.38 x 62.6 x 33.5 +/-1.0 mm

90VV- x.x- T3A	op/Ex ternal	240V~, 50-60Hz	90	V	V	IP21		✓	✓		x 33.5 +/-1.0 mm
GTM96 900P9 0VV.V- T2	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	90	12-54 V	VI	IP41			✓		149.38 x 62.6 x 33.5 +/-1.0 mm
GTM96 900P9 0VV.V- T3	Deskt op/Ex ternal	100- 240V~, 50-60Hz	90	12-54 V	VI	IP41		✓	✓		149.3 x 62.8 x 34.0 +/-1.0
GTM96 900P9 0VV.V- T3A	Deskt op/Ex ternal	100- 240V~, 50-60Hz	90	12-54 V	VI	IP41		✓	✓		149.38 x 62.6 x 33.5 +/-1.0 mm
GTM96 1200P 120VV. V-T2	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	120	12-54 V	VI	IP41		✓	✓		149.30*62.80* 34.00
GTM96 1200P 120VV. V-T3	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	120	12-54 V	VI	IP41		✓	✓		149.30*62.80* 34.00
GTM96 1600P WWW VV.V- T2	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	180	12-54 V	VI	IP41		✓	✓		176.5*74*40
GTM96 1600P WWW VV.V- T3	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	180	12-54 V	VI	IP41		✓	✓		176.5*74*40
GTM96 1600P WWW VV.V- T3A	Deskt op/Ex ternal	100- 240V~, 50-60 Hz	180	12-54 V	VI	IP41		✓	✓		176.5*74*40
GTM96 2400P WWW VV.V- CX	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	240	12-54 V	VI	na		✓	✓		187.75*74.30* 41
GTM96 2400P WWW VV.V-F	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	240	12-54 V	VI	na		✓	✓		182.80*63*29. 7
GTM96 2400P WWW VV.V- FL	Open Fram e/Inte rnal	100- 240V~, 50-60 Hz	240	12-54 V	VI	na		✓	✓		187.75*74.30* 41

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