



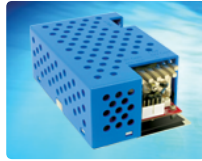
IEC 62368-1 Safety Standard



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In 2014 the Electrotechnical Commission (IEC) released Edition 2.0 of the 62368-1 standard. This standard covers hazards and hazard prevention in the domain of information technology (ITE) and audio/visual (A/V) equipment, including consumer electronics, musical instruments, office appliances, and telecom hardware, and is intended to replace IEC 60950-1 and IEC 60065 sometime in 2019.

IEC 62368-1:2014 recognizes that requiring all existing certified components to transition to the new standard would impose a tremendous burden on manufacturers and certification bodies alike, and so in clause 4.1.1 states that, “Components and subassemblies that comply with IEC 60950-1 or IEC 60065 are acceptable as part of equipment covered by this standard without further evaluation other than to give consideration to the appropriate use of the component or sub-assembly in the end product.”

This second version of the standard is expected to be more widely adopted than the first, which was only adopted by the U.S., Canada, the Netherlands, Denmark, and South Africa. With the publication of the updated standard, member countries of the CB Scheme will be required to publish their national and regional differences from the IEC standard, as well as publishing their national standards based upon 2nd Ed.

In Europe, CENELEC is publishing EN 62368-1:2014, with a date of availability (DAV) in August and date of withdrawal (DOW) set for June 20, 2019. When these dates are accepted by the European Commission and subsequently published in the Official Journal of the European Union, the date of cessation of presumption of conformity of the previous legacy standards (60065 & 60950-1) with the low voltage directive will be the DOW. Manufacturers must demonstrate compliance to EN 62368-1 for all products placed on the market after the DOW.

The U.S. and Canada are expected to set mandatory compliance dates aligning with the EU; that is, mid 2019. New product certifications after this date will not be issued based on 60950-1 or 60065. Products that are already certified in the U.S. or Canada under 60950-1 or 60065 at the time of the 2019 transition date will remain certified for quite some time (no firm date has been set by the certification bodies as of this publication).

Other countries are also working toward publishing national standards based upon IEC 62368-1:2014; however, adoption by other countries, particularly in the Asian region, will undoubtedly lag North America.

Globtek’s GTM96 series of product will have safety approvals for 60601-1, 60950-1, 60335-1 and 62368-1. This should create a greater market acceptance for these products, particularly after 2019.

IEC 62368-1 Certified Power Supplies

Name	Type	Input Voltage	Watts	Vout	Efficiency	Ingress Protection	MOOP	MOPP	60601-1-4th Ed.	Dimensions (mm)
GT-96180-	Desktop/	100-		18-56						

18VV-T3-SP	Desktop/ External	240V~, 50-60 Hz	18	18-56 V	VI					107*55*36
GT-96180-1856-T2-AP	Wall Plug- in+Deskt op Combin ation	100- 240V~, 50-60 Hz	18	56 V	VI					107*55*36
GTM96180-18VV-T3A	Desktop/ External	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)87x(W)47x(H)32mm
GTM96180-18VV-DW	Desktop/ External	100- 240V~, 50-60 Hz	18	5-48 V	VI			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
GT-96180-1856-R3A-AP	Wall Plug- in+Deskt op Combin ation	100- 240V~, 50-60 Hz	18	56 V	VI	Indoor Use				
GT-96180-18VV-T3A-SP	Desktop/ External	100- 240V~, 50-60 Hz	18	18-56 V	VI					107*55*36
GTM96180-18VV-T2A	Desktop/ External	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)87x(W)47x(H)32mm
GTM96180-18VV-T2	Desktop/ External	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)87x(W)47x(H)32mm
GT-96180-18VV-T2-SP	Desktop/ External	100- 240V~, 50-60 Hz	18	18-56 V	VI					107*55*36
GT-96180-18VV-T3A-PP	Desktop/ External	100- 240V~, 50-60 Hz	18	18-56 V	VI					107*55*36
GT-96180-18VV-R2-PP	Wall Plug- in+Deskt op Combin ation	100- 240V~, 50-60 Hz	18	18-56 V	VI					
GTM96180-18VV H/M	Wall Plug-in	100- 240V~, 50-60 Hz	18	4-48 V	VI	IP42		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	74*43.5*36.8
GTM96180-18VV-T3	Desktop/ External	100- 240V~, 50-60 Hz	18	5-48 V	VI	IP42		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)87x(W)47x(H)32mm
GT-96180-1856-R2-AP	Wall Plug- in+Deskt op	100- 240V~, 50-60 Hz	18	56 V	VI	Indoor Use				

Model	Combination	Voltage	Power	Current	Protection	IP	Other	Dimensions	
GT-96180- WWWV-T3- PP	Desktop/ External	100- 240V~, 50-60 Hz	18	18-56 V	VI				
GT-96180- 1856-T3- AP	Desktop/ External	100- 240V~, 50-60 Hz	18	54-56 V	VI				
GT-96180- 18VV-T2- PP	Desktop/ External	100- 240V~, 50-60 Hz	18	18-56 V	VI			107*55*36	
GT-96180- 1856-T3A- AP	Desktop/ External	100- 240V~, 50-60 Hz	18	56 V	VI			107*55*36	
GT-96300- 36VV-T2- SP	Desktop/ External	100- 240V~, 50-60 Hz	36	18-56 V	VI	IP40		107*55*36	
GT-96300- 3656-T3A- AP	Desktop/ External	100- 240V~, 50-60 Hz	36	0 V	VI	IP40		107*55*36	
GT-96300- 36VV-T3A- PP	Desktop/ External	100- 240V~, 50-60 Hz	36	18-56 V	VI	IP40		107*55*36	
GT-96300- 36VV-T3- SP	Desktop/ External	100- 240V~, 50-60 Hz	36	18-56 V	VI			107*55*36	
GT-96300- 36VV-T2- PP	Desktop/ External	100- 240V~, 50-60 Hz	36	18-56 V	VI	IP40		107*55*36	
GT-96300- 36VV-T3A- SP	Desktop/ External	100- 240V~, 50-60 Hz	36	18-56 V	VI			107*55*36	
GTM96300 -36VV-T2A	Desktop/ External	100- 240V~, 50-60 Hz	36	5-48 V	VI	IP42, IP54 Option available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)105.0x(W)5 0.0x(H)35.50m m
GT-96300- 36VV-R2- PP	Wall Plug- in+Deskt op Combina tion	100- 240V~, 50-60 Hz	36	18-56 V	VI	IP40		107*55*36	
GT-96300- 36VV-T3- PP	Desktop/ External	100- 240V~, 50-60 Hz	36	18-56 V	VI	IP40		107*55*36	
GT-96300- 36VV-R3A- PP	Wall Plug- in+Deskt op Combina tion	100- 240V~, 50-60 Hz	36	18-56 V	VI	IP40		107*55*36	

GTM96300-36VV-T2	Desktop/External	100-240V~, 50-60 Hz	36	5-48 V	VI	IP42, IP54 Option available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)105.0x(W)50.0x(H)35.50mm
GTM96300-36VV-T3A	Desktop/External	100-240V~, 50-60 Hz	36	5-48 V	VI	IP42, IP54 Option available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)107.2x(W)50.0x(H)35.0
GT-96300-3656-T2-AP (Desktop, non Hybrid)	Desktop/External	100-240V~, 50-60 Hz	36	56 V	VI	IP40			107*55*36
GT-96300-3656-R2-AP	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	36	0 V	VI	IP40			107*55*36
GT-96300-3656-R3A-AP	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	36	56 V	VI	IP40			107*55*36
GTM96300-36VV-R2	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	36	5-48 V	VI	IP52, IP54 Option available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)101.73x(W)46.47x(H)38.2mm
GTM96300-36VV-R3A	Wall Plug-in+Desktop Combination	100-240V~, 50-60 Hz	36	5-48 V	VI	IP52, IP54 Option available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(L)101.7x(W)46.47x(H)38.2mm
GT-96300-3656-T3-AP	Desktop/External	100-240V~, 50-60 Hz	36	56 V	VI	IP40			107*55*36
GTM96300-36VV-T3	Desktop/External	100-240V~, 50-60 Hz	36	5-48 V	VI	IP42, IP54 Option available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	105x(W)50.0x(H)35.0mm
GTM46402-40VV-x.x-Q	Wall Plug-in	100-240V~, 50-60 Hz	40	12-48 V	VI	Indoor Use	<input checked="" type="checkbox"/>		43.5 x 74.0 x 35.3
GT-43007-40VV-Q	Wall Plug-in	100-240V~, 50-60 Hz	40	12-48 V	V	IP52			43.5 x 74.0 x 35.3
GT-43007-40VV-Q(-40Deg)	Wall Plug-in	100-240V~, 50-60 Hz	40	12-48 V	V	IP52			
									101.6x50.8x23

GTM43007 -BWWVV-F	Open Frame/Internal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	.6 for 5V-14V models, 101.6x50.8x22 .5 for 15V-48V models
GTM43007 -CWWVV-FW	Open Frame/Internal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	127x76.2x23.6
GTM43007 -BWWVV-FW	Open Frame/Internal	100- 240V~, 50-60Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	101.6x50.8x23 .6 for 5V-14V models, 101.6x50.8x22 .5 for 15V-48V models
GTM43007 -CWWVV-F	Open Frame/Internal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	127x76.2x23.6
GTM43007 -BWWVV-FW_	Open Frame/Internal	100- 240V~, 50-60Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	101.6x50.8x23 .6 for 5V-14V models, 101.6x50.8x22 .5 for 15V-48V models
GTM43007 -AWWVV-F (D3 without standoffs)	Open Frame/Internal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.2x50.8x23. 6 for 5V-14V models, 76.2x50.8x22. 5 for 15V-48V models Top Diagram i
GTM43007 -AWWVV-FW (D2 with standoffs)	Open Frame/Internal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.2x50.8x23. 6 for 5V-14V models, 76.2x50.8x22. 5 for 15V-48V models
GTM43007 -AWWVV-FW (D2 without standoffs)	Open Frame/Internal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.2x50.8x23. 6 for 5V-14V models, 76.2x50.8x22. 5 for 15V-48V models
GTM43007 -AWWVV-F (D3 with standoffs)	Open Frame/Internal	100- 240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.2x50.8x23. 6 for 5V-14V models, 76.2x50.8x22. 5 for 15V-48V models Top Diagram i
GTM43007	Open Frame/Internal	100- 240V~	60	5-48	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.2x50.8x23. 6 for 5V-14V models, 76 2x50 8x22

Model	Configuration	Input Voltage / Frequency	Power (W)	Output Voltage (V)	Output Power (W)	Input Protection	Output Protection	Input Protection	Output Protection	Dimensions (mm)
-AWWVV-F	Internal	50-60 Hz		V						5 for 15V-48V models Top Diagram i
GTM43007 -AWWVV-FW	Open Frame/Internal	100-240V~, 50-60 Hz	60	5-48 V	N/A	N/A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.2x50.8x23.6 for 5V-14V models, 76.2x50.8x22.5 for 15V-48V models
GTM96900 P90VV.V-T3	Desktop/External	100-240V~, 50-60Hz	90	12-54 V	VI	IP41		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	149.3 x 62.8 x 34.0 +/-1.0
GTM96900 P90VV.V-T2	Desktop/External	100-240V~, 50-60 Hz	90	12-54 V	VI	IP41			<input checked="" type="checkbox"/>	149.38 x 62.6 x 33.5 +/-1.0 mm
GTM96900 P90VV.V-T3A	Desktop/External	100-240V~, 50-60Hz	90	12-54 V	VI	IP41		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	149.38 x 62.6 x 33.5 +/-1.0 mm
GTM96120 0P120VV.V-T3	Desktop/External	100-240V~, 50-60 Hz	120	12-54 V	VI	IP41		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	149.30*62.80*34.00
GTM96120 0P120VV.V-T2	Desktop/External	100-240V~, 50-60 Hz	120	12-54 V	VI	IP41		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	149.30*62.80*34.00

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