
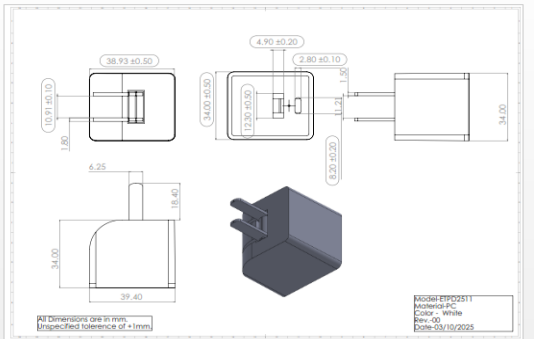
		BMT INDIA TECHNOLOGIES			
PRODUCT SPECIFICATION					
PRODUCT CATEGORY:- WALL CHARGER DUAL PORT PD3.0 AND QC3.0		DATE:-10/01/2025			
PRODUCT SUB-CATEGORY :- POWER ADAPTOR FOR IT EQUIPMENTS		REVISION :- 00			
MODEL NAME:- BMTPDQ-2511-AC					
USB TYPE: C-TYPE & USB-A					
DRIVER OUTPUT TYPE:- CONSTANT VOLTAGE/CONSTANT CURRENT/ISOLATED					
	FEATURES :				
	The Faster, the Better: This dual port wall charger equipped with PD3.0 port and QC3.0 port provide max output 20w fast charging , designed to take your Phone from 0 to 50% in just 30 minutes . Support 3x times faster then normal charger by Combine the power of Power Delivery and Fast charging with a 20W output- and you get the perfect charging station. The wall charger is best suited for Type C to Type C and Type C to Lightning Cables and USB-A to C type and USB-A to micro . (Cables not included)				
	Safe & Reliable : The USB-C port PD3.0/QC3.0 charger detects the connected device to deliver the right amount of power to charge that device as fast as possible. This ensures fast charging without delivering too much power which could damage circuitry adapter				
	Goes with Everything: Compatibility that goes a long way- the PD3.0/QC3.0 Dual port Wall charger is compatible with all iOS devices mobiles, and especially the iPhone 12! Additional compatible devices include iPhone 11 / 11 Pro / 11 pro Max /iPhone 12mini/12/12 pro/ XS / XS Max / XR / X, and all other versions till date. It also fully supports the iPad Pro 10.5" / iPad Air3 10.5"/ iPad mini 5 7.9"/ and later models!				
	To achieve fast charging: In addition to using this fast charger, your charging cables and mobile phones also need to support fast charging protocol				
	Safe Fast Charging: With the intelligent chip inside, the PD3.0/QC3.0 Dual Port charger matches the current your device needs automatically. Over-current, over-voltage, and short-circuit protection effectively protect your devices from damage and ensure safer charging overnight.thanks to the smart recognition system.				
	Material: This product is built in adapting anti fire PC material FR grade.				
	Product Compatibility with Protocols:	CTYPE	PD3.0/PPS/apple 2.4/BC1.2		
		USB-A	QC2.0/QC3.0/DCP1.5/APPLE2.4A/AFC/SCP/FCP		
	Products comes with 24 month warranty.				
INPUT	AC VOLTAGE INPUT RANGE		100 - 300Vac		
	AC VOLTAGE RATED		220 - 240Vac		
	AC CURRENT		0.65A@90Vac		
	RATED POWER (Pin)Max		25W		
	INRUSH CURRENT (Typ)		COLD START 25A@230Vac		
	LEAKAGE CURRENT		< 2mA@230Vac		
	EFFICIENCY (Typ) AT CABLE END		≥ 75%	≥ 80%	≥ 84%
	FREQUENCY RANGE		47 - 63 Hz		
OUTPUT	PD3.0/QC3.0 20W C-PORT				
	DC NO LOAD VOLTAGE	STEP-1	STEP-2	STEP-3	
		5V-5.5V	9V- 9.2V	12V- 12.2V	
	DC ON LOAD VOLTAGE RANGE	4.4V-5.2V	8.5V- 9.1V	11.6V- 12.1V	
	DC CURRENT RANGE	0-3A	0- 2.22A	0- 1.67A	
	DC POWER (Pout) MAX	16W	20W	20W	
	EFFICIENCY	≥85%	≥88%	≥88%	
	Measured on the board				
	RIPPLE & NOISE (max)Vp-p	<150mV	≤180mV	≤250mV	
	LINE REGULATION	±2%			
	LOAD REGULATION	±2%			
	SETUP STARTUP TIME	< 2S@230Vac			
	LEAD CABLE COMPENSATION	<3% OF DC NO LOAD VOLTAGE			
	QC3.0 20W USB-A PORT				
	DC NO LOAD VOLTAGE	STEP-1	STEP-2	STEP-3	
		5V-5.5V	9V- 9.2V	12V- 12.2V	
	DC ON LOAD VOLTAGE RANGE	4.4V-5.2V	8.5V- 9.1V	11.6V- 12.1V	
	DC CURRENT RANGE	0-3A	0- 2.22A	0- 1.67A	
	DC POWER (Pout) MAX	16W	20W	20W	
	EFFICIENCY	≥85%	≥88%	≥88%	
	Measured on the board				
	RIPPLE & NOISE (max)Vp-p	<150mV	≤180mV	≤250mV	
	LINE REGULATION	±2%			
	LOAD REGULATION	±2%			
	SETUP STARTUP TIME	< 2S@230Vac			
	LEAD CABLE COMPENSATION	<2% OF DC NO LOAD VOLTAGE			

OUTPUT		DUAL PORT AT SAME TIME					
		USB-A PORT		C-TYPE PORT			
		5V-5.5V		5V-5.5V			
		4.4V-5.2V		4.4V-5.2V			
		0-1.5A		0-1.5A			
		8W		8W			
		≥80%		≥80%			
		Measured on the board					
		RIPPLE & NOISE (max)Vp-p		<150mV	<150mV		
		SETUP STARTUP TIME		< 2S@230Vac			
PROTECTION		LINE REGULATION			±2%		
		LOAD REGULATION			±2%		
		LEAD CABLE COMPENSATION			<3% OF DC NO LOAD VOLTAGE		
		OVER VOLTAGE			YES		
		OVER CURRENT			YES, 110%-150%OF RATED CURRENT		
SAFETY		DC SHORT CIRCUIT			YES WITH AUTO RESTART FUNCTION		
		OVER CHARGING			SMART PROTECTION		
		OVER TEMPERATURE			Hiccup Mode, Recovers automatically after faults removed		
		SAFEY STANDARD			IEC-60950-1-2005/IS-13252(PART-1):2010		
		WITH STAND VOLTAGE			I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:1.5KVAC		
ENVIRONMENT		ISOLATION RESISTANCE			I/P-O/P, I/P-FG,O/P-FG:100Mohm/500VDC		
		PRODUCTION ISOLATION			CLASS-II		
		IP			20		
		EMC EMISSION			CONDUCTED	FCC15/CISPR22/CISPR32	CLASS B
					REDIATED	FCC15/CISPR22/CISPR32	CLASS B
					HARMONIC CURRENT	IEC-61000-3-2	CLASS A
					SURGE SUSCEPTIBILITY	IEC-61000-4-5	LEVEL 3 3KV/L-N
					ESD	IEC-61000-4-2	LEVEL3 8KV AIR, LEVEL 2 4KV CONTACT
					VOLTAGE DIPS,SHORTS INTERRUPTIONS	IEC-61000-4-11	TEST LEVELS
							VOLTAGE DIP >95%
PRODUCT SPECIFICATION <td colspan="3"></td> <td>VOLTAGE DIP >30%</td>					VOLTAGE DIP >30%		
					SHORT INTERRUPTION >95%		
MECHANICAL		WORKING TEMP			0 to +40°C		
		CASE TEMP			≤70°C		
		WORKING HUMIDITY			10~95% RH		
		TYPE OF USB			C-TYPE AND USB-A TYPE		
		NO OF USB PORT			2		
NOTE		LED INDICATOR			NO		
		IP PROTECTION			IP20		
		HOUSING MATERIAL			PC FR-GARDE		
		HOSUING COLOR			BLUE		
		AC PIN TYPE			US TYPE		
		HOUSING DIMENSION			(LXBXH)(37X33.5X31.5)mm±1mm		
		PRODUCT WEIGHT			50gm ±5gm		
		1. ALL PARAMETERS MENTIONED ARE MEASURED AT 230vac INPUT, RATED LOAD AND 25° AMBINET TEMPERATURE.					
		2. RIPPLE AND NOISE ARE MEASURED AT 20MHz OF BANDWIDTH WITH 0.1uF & 10uF PARALLEL CAP					
		3. CABLE SHOULD BE USED OF 4A TO AVOID VOLTAGE DROP AND SLOW CHARGING					
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