Medical & ITE Dual Safety Standards

MEU600 series

The MEU600 series of medical grade and ITE/AV grade AC-DC power supplies provides the compact form factor and high efficiency that the marketplace demands. They are capable of delivering the maximum of continuous output power and operating temperature. The series provides a steady 600 W of regulated DC power through the full 90 to 264 VAC input range, all in a 3.94" X 8.5" X 1.57" form factor. All models meet FCC Part-18, CISPR-11 and EN55011 class B emission Limits, IEC 60601-1:2014, IEC 62368-1:2014 and EN55032 class B are designed to comply with UL/cUL, TUV T-mark and conformity assessment in CE marking. All units pass burn-in test at full load condition.



APPROVALS:

Electrical Characteristics:

600W Enclosure Type Power Supply

FEATURES:

- * Wide Operating Voltage, 90 to 264VAC, 47 to 63 Hz
- * Input to Output : 2MOPP
- * High ESD immunity
- * Active Power Factor Correction
- * 5V Standby Output & RS485 Communication (Optional)
- * Protection: OVP, OLP, OTP, SCP
- * Size : 3.94"x8.5"x1.57"
- * High Altitude of 5000m
- * 3 year warranty

APPLICATIONS:

- * Test and Measurement Equipment
- * Laboratory Equipment
- * Ultrasound system
- * Video Wall Display
- * Telecommunications
- * In Vitro Diagnostic Devices
- * Industrial Control and Automation
- * Medical applications

GENERAL SPECIFICATION:

- * Cooling: Forced Air. Convection
- * Protection Classes: Class I
- * Safety: IEC60601-1 Edition3.1, ES60601-1:2005(R2012), CAN/CSAC22.2 NO.60601-1:14, EN60601-1:2016/A1:2013, IEC62368-1 Edition2.0, UL 62368-1, CAN/CSA-C22.2 NO.62368-1-14, EN62368-1:2014

Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit
Vins	Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Vin	Input Operate Voltage Range	Detail to see Fig.1	90		264	VAC
Fi	Input Frequency	Sine wave	47		63	Hz
PF	Power Factor Correction		0.92		1	
Ро	Output Power Range	See Rating Chart			600	W
Iil	Low Line Input Current	Full Load, Vin=100VAC		8		Α
Iih	High Line Input Current	Full Load, Vin=240VAC		4		Α
Irl	Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=115VAC			45	Α
Irh	High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=230VAC			103	Α
Ik	Safety Ground Leakage Current	Vin=264VAC, Fin=60Hz		0.25		mA
Eff	Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	S	ee Ratii	ng Char	rt
△Voi	Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC			1	%
SCP	Short Circuit Protection	Vin=264VAC, Fin=60Hz	S	ee Ratii	ng Char	rt
ОТР	Over Temperature Protection	Main Nominal Output, Restarting after Power Unit cool down				
OVP	Over Voltage Protection	Main Nominal Output,Latch Protection	112		132	%
OLP#1	Main Output(Vo1) Over Load Protection	Recovers automatically	105		150	%
OLP#2	5Vsb(Vo2) Over Load Protection	Recovers automatically after fault condition is removed	105		150	%
thu	Hold-Up Time	Main Nominal Output 70% Full Load, Vin=230VAC	S	ee Ratii	ng Char	rt
Ris	Insulation Resistance		50			ΜΩ
Тс	Temperature Coefficient	All Condition			±0.04	%/°C
HV	Dielectric Withstanding Voltage (P-S)	Primary to Secondary, limit current <10mA	4000			VAC
Vpg	Dielectric Withstanding Voltage (P-G)	Primary to PE, limit current <10mA	2000			VAC
EMI	EMC Emission	Compliance to EN55011, EN55032	В			Class

Environmental:

Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit
То	Operating Temperature	Detail to see Fig.2 (Derate linearly from 100% load at 50°C to 50% load at 70°C)	-40		70	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		85	°C
Но	Operating Humidity	non-condensing	0		95%	RH
Hs	Storage Humidity		0		95%	RH
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Nominal Line , Calculated per MIL-HDBK-217F	150k			h
ELEV	Operating Altitude (Elevation)				5000	m
VBR	Vibration	10 ~ 500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Vsl	Surge Voltage	Line-Neutral			1	kV
Vsg	Surge Voltage	Line-PE & Neutral-PE			2	kV

Medical & ITE Dual Safety Standards

MEU600 series

600W Enclosure Type Power Supply

PIN CHART:

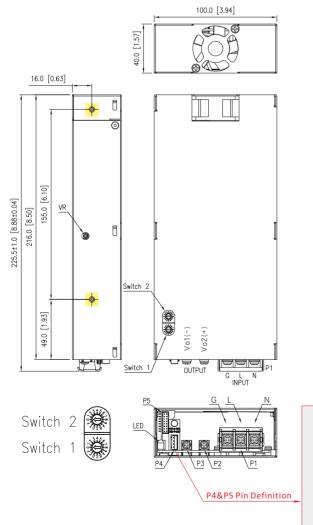
SPECIFICATION NOTE :

- 1. Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load is not allowed.
- 2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm40\%$ of measured output load from 60% rated load.
- 5. The ripple is measured from peak to peak with a bandwidth-limit of 20MHz (Measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
- 6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
- 7. Efficiency is measured at rated load, and nominal line.

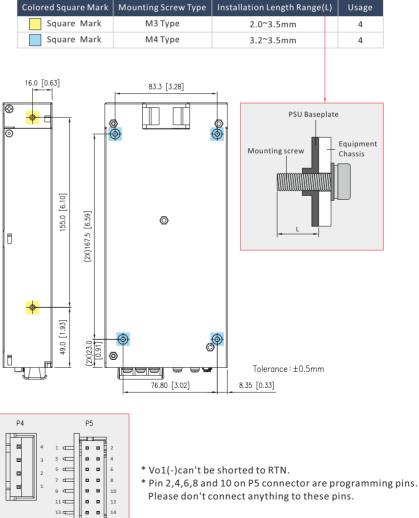
	Connector Definition	Connector Type	Pin chart	Pin
			NEUTRAL	N
INPUT	P1	DECA#T36-ED3103	LINE	L
			PROTECTION EARTH	G
OUTPUT	P2	DINKLE#P810W Vo1(+)		P2
001201	Р3	DINKLE#P810W	Vo1(-)	P3
			PFD	1
5V STB	P4	JOINT TECH#A2501	RTN1	2
(Optional)	P4	WV-04P-1	Remote ON/OFF	3
			Vo2(+5V)	4
			Vcc (3.3V)	1,4
			MCLR	2
			DIMM	3
			RTN	5,6
			N/C	7,9,11,12
Communication (Optional)	P5	JOINT TECH#A2211 WR-2X08P	PGD	8
			PGC	10
			485 D-	13
			485 D+	14
			CAN L	15
			CAN H	16
IP Address	SW2		0~F	0(Default)
(Optional)	SW1		0~F	0(Default)

MECHANICAL DIMENSIONS: (UNIT: mm[inch])

NET WEIGHT: 1150 g approx.



MOUNTING SCREW LENGTH REQUIREMENTS:



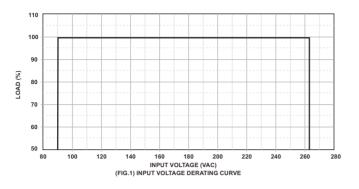
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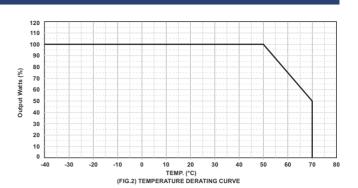
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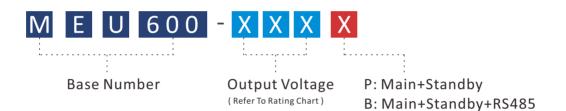
Medic nA Medical & ITE Dual Safety Standards PRO 600W Enclosure Type Power Supply

MEU600 series





MODEL NAME:



RATING CHART:

		Main Output Chart(Vo1)											
MODEL NO.	Vo1	Adjustment Regulation	Vo1 Regulation	lo	Max Pout	Hold-Up Time	Ripple MAX	Typ. Efficiency	Typ. No Load Consumption	Short Circuit Protection			
	(VDC)	(%)	(%)	(A)	(W)	(ms)	(mVp-p)	(%)	(W)				
MEU600-108	24	±2	±3	25.00	600	16	240	89	<5	Auto Recovery			
MEU600-111	48	±2	±2	12.50	600	16	480	91	<5	Auto Recovery			
MEU600-108P	24	±2	±3	20.48A~ 24.58A	590	16	240	88.5	0.8 (Standby Mode)	Latch Off			
MEU600-111P	48	±2	±2	10.24A~ 12.29A	590	16	480	90	0.8 (Standby Mode)	Latch Off			
MEU600-108B	24	±20	±3	20.48A~ 24.58A	590	16	240	88.5	0.8 (Standby Mode)	Latch Off			
MEU600-111B	48	±20	±2	10.24A~ 12.29A	590	16	480	90	0.8 (Standby Mode)	Latch Off			

	Standby Output Chart(Vo2)									
MODEL NO.	Vo2	Vo2 Regulation	lo MAX	Remote ON/OFF Control	Short Circuit Protection	Ripple MAX				
	(VDC)	(%)	(A)							
MEU600-108P	5	±5	2	Positive logic (3.3~5V)	Auto Recovery	60mV				
MEU600-111P	5	±5	2	Positive logic (3.3~5V)	Auto Recovery	60mV				
MEU600-108B	5	±5	2	Positive logic (3.3~5V)	Auto Recovery	60mV				
MEU600-111B	5	±5	2	Positive logic (3.3~5V)	Auto Recovery	60mV				

Medical & ITE Dual Safety Standards SINPRO

MEU600 series

600W Enclosure Type Power Supply

EMC Specifications:

	EMISSION					
ITEM	STANDARD	RESULT				
Conducted	EN55011,EN55032	CLASS B				
Radiated	EN55011,EN55032	CLASS B				
Harmonics	EN61000-3-2	CLASS A				
Flicker	EN61000-3-3	PASS				

	ITEM	STANDARD	RESULT	CRITERION
	ESD	EN61000-4-2	15KV air discharge, 8KV contact discharge	А
	RS	EN61000-4-3	PASS	А
	EFT	EN61000-4-4	Power line 2KV,100KHz	А
	SURGE	EN61000-4-5	1KV line to line 2KV line to PE	А
	CS	EN61000-4-6	3Vrms, 6Vrms	А
IMMUNITY	PFMF	EN61000-4-8	30A/m,50Hz	А
		EN61000-4-11	I) 100% reduction for 0.5 cycle at 50Hz	А
	Voltage dips		ii) 0% reduction for 1 cycle at 50Hz	А
			iii) 30% reduction for 25/30 cycles at 50/60Hz	А
	Voltage interruptions	EN61000-4-11	100% reduction for 250/300 cycles at 50/60Hz	В

STANDARD PACKAGING: (UNIT: mm)

* Power Supplies per Box (full box): 10 PCS.(2X1X5)

- * Box Dimensions: L33*W26*H34 cm
- * Gross Weight (full box): 13.10 KGS
- * Packaging Part No: 84-38694-02

PULK: 82-37705-01(X10 PCS.) BULK: 82-37705-01(X10 PCS.) BOX: 81-37707-01(X10 PCS.) BOX: 81-37707-01(X10 PCS.) EXECUTION: 81-37708-01(X1 PCS.) EXECUTION: 81-3770

BULK: 82-37706-01(X2 PCS.)

* Note the above packing is for reference only, please contact sales for a confirm packing information.