SPECIFICATIONS (1/2)

CA973-01-01

	MODEL		GLIG(00 12	GYYG COO OA	GYYG COO O C	CITICON 40	
ITEMS			GUS600-12	GUS600-24	GUS600-36	GUS600-48	
NPUT						•	
Input Voltage Range & Input Frequency (*2)(*12)		-	85 - 265VAC (47 - 63Hz)				
Efficiency (Typ.) (*1)	115VAC	%	92.0	93.0	93.0	93.0	
	230VAC	%	94.0	95.0	95.0	95.0	
Input Current (Typ.) (*1)	115VAC	A		6	.0		
	230VAC	A		3	.0		
Inrush Current (Typ.) (*1)(*3)	115/230VAC	A	25 / 50 at Cold Start				
Power Factor (Typ.) (*1)	115/230VAC	ı	0.99 / 0.95				
Leakage Current	(*9)	ı		Less than	n 0.75mA		
OUTPUT							
Nominal Output Voltage		V	12	24	36	48	
Output Voltage Initial Set Accuracy		-			1%		
Output Voltage Adjustment Range		V	11.7 - 12.9	23.4 - 25.9	35.1 - 38.8	46.8 - 51.8	
Maximum Output Current		A	50.0	25.0	16.7	12.6	
Maximum Output Power		W	600.0	600.0	601.2	604.8	
Maximum Line Regulation	(*4)(*5)	mV	48	96	144	192	
Maximum Load Regulation	(*4)(*6)	mV	96	192	288	384	
Temperature Coefficient	(*4)	-		Less than	0.02% / °C		
Maximum Ripple & Noise	(*1)(*4)(*16)	mV	240	360	480	480	
Hold-up Time (Typ.)	(*1)	ms		1	12		
ROTECTIVE FUNCTION							
Over Current Protection	(*7)	A	> 52.50	> 26.25	> 17.54	> 13.23	
Over Voltage Protection	(*8)	V	13.80 - 16.20	27.60 - 32.40	41.40 - 48.60	55.20 - 64.80	
UNCTION							
Remote ON/OFF Control	Remote ON/OFF Control (*13)(*15)		Possible				
Remote Sensing		-	None				
Parallel Operation		-	None				
Series Operation	(*13)	-	Possible				
NVIRONMENT							
Operating Temperature	(*10)	-	-20 to +70°C, start up at -40°C				
Storage Temperature		-	-40 to +70°C				
Operating Humidity		-	10 to 95%RH (Non Condensing)				
Storage Humidity		-	10 to 95%RH (Non Condensing)				
Vibration	(*14)	-	At	no operating, 10 - 5	55Hz (Sweep for 11	nin)	
			19.6m/s ² Constant, X,Y,Z 1hour		, X,Y,Z 1hour each	ı .	
Shock	(*14)	-	Less than 196m/s^2 (time : $11 \pm 5 \text{ ms}$)				
Cooling		-	Forced air cooling by Intake FAN				
SOLATION							
Withstand Voltage		-	Input - FG : 2	2.0kVAC (20mA), I	nput - Output : 3.0	kVAC (20mA)	
			Output - FG: 500VAC (100mA) for 1min				
Isolation Resistance	istance			More than $100M\Omega$ at 25°C and 70%RH, Output - FG : 500VDC			

SPECIFICATIONS (2/2)

CA973-01-01

	ITEMS	MODEL		GUS600-12	GUS600-24	GUS600-36	GUS600-48
STAN	DARD AND COMPLIANCE						
	Safety			Approved by IEC/EN/UL/CSA 62368-1 (Altitude ≤ 5,000m)			e ≤ 5,000m)
			-	Designed to meet IEC61010-1 (Altitude ≤ 5,000m)		(000m)	
				Designed to meet IEC62477-1 (OVC III) (Altitude ≤ 4,000m)			$e \le 4,000 m$
	Conducted Emission	(*11)		Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B			
	Radiated Emission	(*11)		Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B		ssB, VCCI-B	
	Harmonic Current	(*1)(*11)	-	Designed to meet IEC61000-3-2, Class A			
	Immunity	(*11)(*17)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11		4, -5, -6, -8, -11	
	Line DIP		-	Designed to meet SEMI-F47 at input voltage ≥ 200VAC			
MECI	HANICAL						
	Weight (Typ.)		g	850			
	Size (W x H x D)		mm	101.0	6 x 41 x 152.4 (Re	fer to Outline Draw	ring)

^{*}Read instruction manual carefully, before using the power supply unit.

=NOTES=

- *1. At 115VAC/230VAC, Ta=25°C, nominal output voltage, maximum output power.
- *2. For cases where conformance is required to meet various safety specs (UL, CSA, EN), input voltage range shall be from 100 240VAC (50-60Hz).
- *3. Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- *4. Refer to Fig. A for measurement of Vo, line and load regulation, and ripple voltage.
- *5. Input voltage from 85 to 265VAC at constant output current.
- *6. Constant input voltage and output current from no load to maximum output current.
- *7. Hiccup with automatic recovery, however power supply may be latched for protection when output is shorted and manual reset is required (Re power on).

 Avoid operating at over load or short circuit condition.
- *8. Inverter shut down method. When OVP is triggered, output will be shut down, and manual reset of power supply is required to re-power on.
- *9. Apply the appropriate measurement method according to the required standard: UL, CSA, and EN (at 60Hz), Ta=25°C.
- *10. For details, Refer to OUTPUT DERATING CURVE (CA973-01-02).

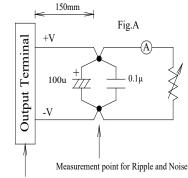
Maximum load start up at -40°C is possible. However, it may not fulfill all the specifications.

*11. The specifications are based on TDK-Lambda standard measurement conditions.

The power supply is considered a component which will be installed into a final equipment.

The final equipment should be re-evaluated that it meets EMC requirement.

- *12. When the input voltage is less than 90VAC, output derating is required. Refer to OUTPUT DERATING CURVE (CA973-01-02_). Avoid operating the unit out of the specified input voltage range.
- *13. Refer to instruction manual (CA973-04-01).
- *14. Using 4 mounting holes on chassis. The result is evaluated by TDK-Lambda standard measurement condition. The equipment should be re-evaluated to meet its vibration and shock requirement.
- *15. Remote ON/OFF control function is provided on option model /R.
- *16. Ripple & noise are measured at 20MHz by using a 150mm twisted pair of load wires terminated with a 0.1uF and 100uF capacitor.
- *17. Refer to immunity test data (CA973-58-01).



Measurement point for Vo Line/Load Regulation

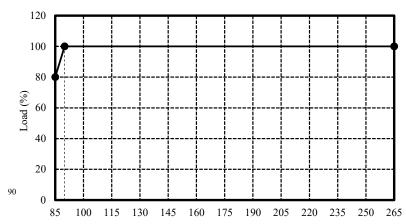
SPECIFICATIONS (1/1)

OUTPUT DERATING

CA973-01-02

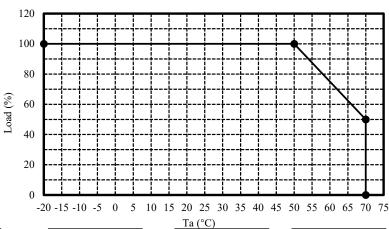
OUTPUT DERATING VERSUS INPUT VOLTAGE

Input Voltage (VAC)	Load (%)		
85	80		
90~265	100		



OUTPUT DERATING VERSUS OPERATING AMBIENTY FEMARE RATURE (Ta)

Ta (°C)	Load (%)		
-20~+50	100		
+70	50		



MOUNTING A (STANDARD MOUNTING)



MOUNTING C

MONTING D

MOUNTING E

