	ELECTR	ICAL REQUIREN	MENTS	
DESIGNED NO	D. Y	DS-8452-R	DATE	2018/12/14
ADAPTER 電氣特性要求				
I. Electrical:				
-1. Input Characteristics:				
1-1-1.Rated Voltage				
It is normal fr	rom 100 Vac to 240 V	ac input AC voltage		
1-1-2.Input Voltage Ra	ange			
The Adapter s	shall operate from 90	Vac to <u>264</u> Vac input A	C voltage	
1-1-3.Rated Frequency	7			
It is normal fr	rom 50 Hz to 60	Hz and single phase.		
1-1-4.Frequency Rang	e			
The Adapter sl	hall operate with an input free	quency fron 47 Hz to	63 Hz.	
1-1-5.Steady AC Curro	ent			
Maximum ste	adv state input current is les	s the 0.8 Arms. Measured	at 100Vac Input voltage.	
1-1-6.Inrush Current	5 1		1 8	
	,25℃, Cold Start			
		Blow No Damage To The Po	ower Supply	
1-1-7.Minimum Avera	ge Efficiency In Active			
•	%, 75% and 100% of Max. I	5 , 9V/85.45%.12V/85.45% oad (After 30 minutes opera		
1.1.8 No load power (Stand-by consumption)			
1	power is less than 0.1 V	V at 115 Vac and 230	Vac (Criteria	:Level VI)
-2. Output Characteristics	·		vae (entena	
2. Suput characteristics	•			
Output	Minimum	Maximum	Output Curre	ent
Voltage	Voltage(V)	Voltage(V)	Continuous	
+5Vdc	+4.85Vdc(in board)	+5.35Vdc	3A (15Watts	s)
+9Vdc	+8.1Vdc	+9.9Vdc	2A (18Watts	s)
+12Vdc	+10.8Vdc	+13.2Vdc	1.5A (18Wat	ts)
*	e product can be adjusted at	itomaticaiiy by the load	<u> </u>	
(输出电压可自动调整	<u> </u>			
This Adapter	capable to suppor 18	Watts continuously at all spe	cified conditions	
i nis Adapter	capable to suppor 18	waus continuously at all spe	cined conditions.	

1-2-7.Output	Ripple	and	Noise
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Ripple & Noise ≤ 240 mVp-p (Full load at I/P: <u>115</u> Vac <u>60</u> Hz and <u>230</u> Vac <u>50</u> Hz) Measured methods:

Performed by 20MHz bandwidth in oscilloscope. Applied 0.1uF ceramic capacitor and 10uF

electrolytic capacitor across output connector terminal. Measured at the end of DC cable.

Test temperature at 25°C.

1-2-8.Turn On Delay Time

3S Max. At 100Vac input and output Max Load

1-2-9.Hold Up Time

10mS Max. At 100Vac input and output Max Load

1-2-10.Protection

a) Short Circuit protection

The power supply will be auto recovered when short circuit faults remove

b) Over current protection (OCP)

The power supply will be auto recovered when over current faults remove.

c) Over voltage protection (OVP)

The voltage will not exceed the upper trip limit. Use for ZENER diode

Input Voltage	Output Voltage	Upper		
100-240Vac	4.85Vdc~5.35Vdc(5.1V±5%)	/Vdc		
100-240Vac	8.1Vdc~9.9Vdc	/Vdc		
100-240Vac	10.8Vdc~13.2Vdc	/Vdc		

2. Environmental:

2-1.Temperature

2-1-1.Operating

The Adapter is capable to operate from 0 °C to. 40 °C

2-1-2.Non- Operating

The Adapter is capable to be stored from -10 °C to. 60 °C

NOTE:The bending angle of SR part must not be exceed 90 $^{\circ}$

2-2.Humidity

2-2-1.Operating

The Adapter is capable to operate from 10 to 90 % RH. (non condensing)

2-2-2.Non- Operating

The Adapter is capable to be stored from 5 to 95 % RH. (non condensing)

2-3.Dielectr	ic Withstand V	/oltage (H	HI – POT)							
	The Adapter	shall be a	pplied 30	00 Vac for 60	seconds or 42	242	Vdc for 60	seconds betw	ween AC input	
	terminals and	l output te	erminals. The cut	off current is spec	ified ≤ 10	mA.				
2-4.Insulatio	on Resistance									
Primary	to secondary	:≧ 50	M ohm. 500	VDC.						
2-5.EMI Re	quirement									
The adapter complies with : FCC Part 15 Cl			lass B	V	EN55032 Class B J55			J55022 C	lass B	
AS/NES 3548			Class B		CNS13438 Class B ICES-00			3 Class I		
			GB9254 Class	В	V	EN55024 Class B				
2-6.EMS		<u> </u>								
ESD : ⊧	= 8 KV	air discha	rge, ± 4	KV contact disch	arge					
PLD (lightning surg	e IEC	c 61000-4-5)						
(1) Common Me	ode +/-	KV (1	2 ohm) . Class I	(line to earth	ı, no	eutral to ea	rth , line to n	eutral)	
(2) Differential	Mode +/-	1 KV (2	cohm).Class Ⅱ (line to neutra	al)				
2-7.Safety C	Conforming									
Туре		Stan	dard]	ſ		Туре	S	tandard	
UL	UL609	UL60950-1		-			CE	IEC60065		
UL	UL131	0		-			СВ	IEC60950		
cUL	CSA 2	2.2 No.60	950				SAA	AS/NZS:		
cUL	CAN/O	CSA C22.2	2 No.223				CCC	GB4943		
GS	EN609	50-1				V	CE	EN60950-		
PSE	J60950)-1					KETI	K 60950-1		
BSMI	CNS14	336-1					СВ	IEC60065		
GS	GS EN60065:2002+A1:2006]	Ĺ		PSB	IEC60950-1		
	echanical:									
3-1.Dimensi Body:		L) × 28	mm (W) ×	50 mm (H) ref	erence only l	Deta	il Refer Pa	ge 9)		
3-2.Output (<u> </u>		
Plug:	PIN1:OUT	+,PIN4:O	UT-,PIN2:D-,PI	N3:D+						
Wire:		N/A								
3-3.Weight										
Net Wei 3-4.AC Plug	ght (Approx):	69,080	±5% mg.							
VDE	Туре.									





