

SPECIFICATIONS

Product.	SMPS	Date.	2016.04.27.
Model.	NCSF600-S	Rev.	A
Customer.	STANDARD	Page.	1 / 2

MODEL/CHANNEL		Unit.	3R3	05	09	12	
INPUT	Voltage , Frequency	[V]	AC100 – 240V(AC85 – 264V) , 50/60Hz(47 – 63) or DC120~370V (Universal Input)				
	Current	110V	4.3	6.6	7.2	7.2	
	Typ.	220V	2.2	3.3	3.6	3.6	
	Efficiency	110V	69	74	76	78	
	Typ.	220V	71	77	79	81	
	Power factor	110V	-	0.98	0.98	0.99	
	Typ.	220V	-	0.92	0.93	0.95	
Inrush Current	110V	[A]	20 (Ta=25℃ , Io=100% at Cold Start)				
Typ.	220V		40 (Ta=25℃ , Io=100% at Cold Start)				
Leakage Current	110V	[mA]	0.5				
Max.	220V		1.0				
OUTPUT	Norminal Voltage	[V]	3.3	5	9	12	
	Setting Voltage Range	[V]	3.26 ~3.33	4.95 ~ 5.05	8.91 ~ 9.09	11.88 ~ 12.12	
	Current	[A]	100	100	66.5	50	
	Line Regulations Max.	[mV]	25	25	45	60	
	Load Regulations Max.	[mV]	50	50	90	120	
	Temperature Drift Max.	[mV]	75	75	135	180	
	Ripple(pk-pk)	[mV]	80	80	120	120	
	Ripple& Noise(pk-pk) (注2)	[mV]	120	120	150	150	
	Turn-on Time Typ.	[ms]	500 (AC IN 110/220V, Io=100%)				
	Hold-up Time Typ.	[ms]	20 (AC IN 110/220V, Io=100%)				
Function	Over Voltage Protection	[V]	Work at 115% ~ 140% of rating				
	Over Current Protection	[A]	Work at over 110% of rating and recovers automatically				
	Remote ON.OFF	-	-				
	Remote Sensing	-	-				
	Power Fail Signal	-	-				
	Parallel/Series Operation	-	Series operations is possible				
	Cooling / O.T.P	-	Forced air by blower fan / Possible				
Electrical Isolation	(1) Input – Output	-	AC 3.0KV 1min, cut-off: 20mA / DC 500V 100MΩ				
	(2) Input – F.G	-	AC 2.0KV 1min, cut-off: 20mA / DC 500V 100MΩ				
	(3) Output – F.G	-	AC 0.5KV 1min, cut-off:100mA / DC 500V 100MΩ				
Environment	Operating temp.&Humidity (注1)	-	-10 ~ 65℃(Required Derating), 20 ~ 90% RH (Non Condensing)				
	Storage temp. & Humidity	-	-20 ~ 75℃, 20 ~ 90% RH (Non Condensing)				
	Vibration	-	10~55Hz at 1G, 3minutes period, 30minutes along X,Y and Z axis				
Dimension	Size(WxHxD) / Weight	mm / g	120 x 61 x 215		/ 1,800		
Safety	EN, IEC, KC(60950-1)	-	CE, CB : All model KC : 05, 12, 24, 48V approved				
Emission	EMI CONDUCTION & RADIATION	-	Complied with EN55022 Class A : All model KN 32 Class A approved : 05, 12, 24, 48V				
	EMS IMMUNITY	-	Complied with EN55024 : All model KN 35 approved : 05, 12, 24, 48V				
PFHC	-	-	Complied with IEC61000-3-2 Class A				

※(注1): AC 입력전압, 주위온도, 제품 Mounting에 따른 LOAD 사용 조건은 Derating Curve 도면 참조

※(注2): Line/Load Regulation, Ripple & Noise는 출력단자에서 측정

(단, Ripple & Noise 측정시 출력단자에 0.1uF과 47uF를 부착하여 측정)

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Customer.	STANDARD	Page.	2 / 2

MODEL/CHANNEL		Unit.	15	24	48	
INPUT	Voltage , Frequency	[V]	AC100 – 240V(AC85 – 264V) , 50/60Hz(47 – 63) or DC120~370V (Universal Input)			
	Current	110V	7.2	7.2	7.2	
	Typ.	220V	3.6	3.6	3.6	
	Efficiency	110V	79	81	82	
	Typ.	220V	83	84	85	
	Power factor	110V	0.99			
	Typ.	220V	0.95			
Inrush Current	110V	20 (Ta=25℃ , Io=100% at Cold Start)				
Typ.	220V	40 (Ta=25℃ , Io=100% at Cold Start)				
Leakage Current	110V	0.5				
Max.	220V	1.0				
OUTPUT	Norminal Voltage	[V]	15	24	48	
	Setting Voltage Range	[V]	14.85 ~ 15.15	23.76 ~ 24.24	47.52~48.48	
	Current	[A]	40	25	12.5	
	Line Regulations Max.	[mV]	75	120	240	
	Load Regulations Max.	[mV]	150	240	480	
	Temperature Drift Max.	[mV]	225	360	720	
	Ripple(pk-pk)	[mV]	120	120	150	
	Ripple& Noise(pk-pk) (注2)	[mV]	150	150	250	
	Turn-on Time Typ.	[ms]	500 (AC IN 110/220V, Io=100%)			
	Hold-up Time Typ.	[ms]	20 (AC IN 110/220V, Io=100%)			
Function	Over Voltage Protection	[V]	Work at 115% ~ 140% of rating			
	Over Current Protection	[A]	Work at over 110% of rating and recovers automatically			
	Remote ON.OFF	-	-			
	Remote Sensing	-	-			
	Power Fail Signal	-	-			
	Parallel/Series Operation	-	Series operations is possible			
	Cooling / O.T.P	-	Forced air by blower fan / Possible			
Electrical Isolation	(1) Input – Output	-	AC 3.0KV 1min, cut-off: 20mA / DC 500V 100MΩ			
	(2) Input – F.G	-	AC 2.0KV 1min, cut-off: 20mA / DC 500V 100MΩ			
	(3) Output – F.G	-	AC 0.5KV 1min, cut-off:100mA / DC 500V 100MΩ			
Environment	Operating temp.&Humidity (注1)	-	-10 ~ 65℃(Required Derating), 20 ~ 90% RH (Non Condensing)			
	Storage temp. & Humidity	-	-20 ~ 75℃, 20 ~ 90% RH (Non Condensing)			
	Vibration	-	10~55Hz at 1G, 3minutes period, 30minutes along X,Y and Z axis			
Dimension	Size(WxHxD) / Weight	mm / g	120 x 61 x 215		1,800	
Safety	EN, IEC, KC(60950-1)	-	CE, CB : All model KC : 05, 12, 24, 48V approved			
Emission	EMI CONDUCTION & RADIATION	-	Complied with EN55022 Class A : All model KN 32 Class A approved : 05, 12, 24, 48V			
	EMS IMMUNITY	-	Complied with EN55024 : All model KN 35 approved : 05, 12, 24, 48V			
PFHC	-	-	Complied with IEC61000-3-2 Class A			

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(단, Ripple & Noise 측정시 출력단자에 0.1uF과 47uF를 부착하여 측정)