SPECIFICATIONS

Product.	SMPS	Date.	2017.11.16	DWG		
Model.	FDR480-S	Rev.	1.0	CHK		
Customer.	Standard	Page.	1	APPD		

MODEL/CHANNEL			Unit.	24	48		
INPUT	Voltage , Frequency		[V]	AC100 - 240V(AC90 - 264V), 50/60Hz(47 - 63) or DC127~370V (Universal Input)			
	Current Typ.	110V 220V	[A]	5.0 2.5			
	Efficiency Typ.	110V 220V	[%]	90 90	92 92		
	Power factor Typ.	110V 220V	-	0.98 (Io= 100%) 0.94 (Io= 100%)			
	Inrush Current Typ.	110V 220V	[A]	40 (Ta=25℃ , Cold Start) 80 (Ta=25℃ , Cold Start)			
	Leakage Current (Max)	220V	[mA]	2.0mA			
OUTPUT	Norminal Voltage		[V]	24	48		
	Setting Voltage Range		[V]	23.7 ~ 24.3	47.4 ~ 48.6		
	Voltage Adjustment Range		[V]	24 ~ 28	48 ~ 55		
	Current		[A]	20	10		
	Rated Power		[W]	480	480		
	Line Regulations		[mV]	240	480		
	Load Regulations		[mV]	240	480		
	Temperature Drift		[mV]	360	720		
	Ripple& Noise(pk-pk)	(*1)	[mV]	300	300		
	Set-up,Rise Time	110V	[ms]	3000ms, 150ms (AC110V, Io=100%)			
	(typ.)	220V	[ms]	1500ms, 150ms (AC220V, Io=100%)			
	Hold-up Time (typ.)		[ms]	14 (AC IN 220V, Io=100%)			
Function	Over Voltage Protection		[V]	29 ~ 33	56 ~ 65		
	Over Current Protection		[A]	22 ~ 30	11 ~ 15		
	DC_OK Lamp		-	LED(GREEN)			
	DC_LOW Lamp		-	LED(RED)			
	DC_OK Relay contact(max.)		-	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A resistive load			
	Parallel/Series Operation		-	possible (3+1) / possible			
	Cooling / O.T.P		-	Convention Cooling			
Electrical Isolation	(1) Input - Output		-	AC 3.0KV 1min, cut-off: 20mA / DC 500V 100㏁			
	(2) Input - F.G		-	AC 2.0KV 1min, cut-off: 20mA / DC 500V 100㏁			
	(3) Output - F.G		-	AC 0.5KV 1min, cut-off:100mA / DC 500V 100㏁			
Environment	Operating temp.&Humidity	(*2)	-	-25 ~ 60℃(Refer to "Derating Curve"), 20 ~ 90% RH (Non Condensing)			
	Storage temp. & Humidity		-	-40 ~ 85℃, 20 ~ 90% RH (Non Condensing)			
	Vibration		-	10~55Hz at 2G 1minutes period, 1hour along X,Y and Z axis			
Dimension	Size(WxHxD) / Weight		mm / g	85×130×125 / 1700			
Safety	SAFETY REGULATION		-	cUL,CE,CB	cUL,CE,CB		
Emission	LINE CONDUCTED RF VOLTAGE		-	Complied with EN55011/EN55022-B, FCC-B			
PFHC	Harmonic Current		-	Complied with EN61000-3-2 (Class-A)			

(*1)Terminated with 0.1uF & 47uF parallel capacitor(Bandwidth=20MHz), (Ta=0℃~60℃)

(*2)Installation clearances : 40mm on top, 20mm on bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.