1006 Power System Technical Specifications

RECTIFIER MODULES	12V-18A	12V-30A	24V-15A	24V-30A	48V-12A	48V-25A	48V-30A	60V-15A
INPUT								
Nominal Voltage (-15%, +12%)	100 ~ 240Vac with derating							
Voltage Range	85Vac to 270Vac							
Maximal Current (at full load) [1]	N*3.5A	N*6A	N*6A	N*10A	N*6A	N*10A	N*10A	N*10A
Frequency	47Hz to 63Hz							
Power Factor (at full load)	≥0.99							
OUTPUT								
Voltage (default)	13.5±0.2Vdc		27± 0.2Vdc		54±0.2Vdc			67.5± 0.2Vdc
Adjustable Range (manual)	10-15Vdc		20-30Vdc		47-60Vdc			60-75Vdc
Regulation (line & load)	0.5%							
Nominal Current [1]	N*18A	N*30A	N*15A	N*30A(Vin>100V) N*20A(Vin<100V)	N*12A(Vin>150V) N*8A(Vin<150V)	N*25A(Vin>165V) N*18A(165>Vin>120V)[5]	N*30A(Vin>200V) N*16A(Vin=110V)	N*15A(Vin>100V) N*10A(Vin<100V)
Ripple & Noise @ BW=30MHz	200mV p-p, 20mVrms							
Psophometric Noise	-52dbm, 2mV max							
Efficiency (nominal load)	86% @ 230Vac 82% @ 115Vac		88% @ 230Vac 84% @ 115Vac		90% @ 230Vac 87% @ 115Vac	92% @ 230Vac 89% @ 115Vac	91% @ 230Vac 87% @ 115Vac	92% @ 230Vac 89% @ 115Vac
Overload Current [1] (short circuit current, Vo=0)	<N*20A N*3A<Isc<N*5A	<N*31A N*6A<Isc<N*8A	<N*16A N*3A<Isc<N*4A	<N*31A(Vin>100V) <N*21A(Vin>100V) N*6A<Isc<N*8A	<N*13A(Vin>150V) <N*9A(Vin>150V) N*3A<Isc<N*5A	<N*26A(Vin>165V) <N*19A(165>Vin>120V) N*4A<Isc<N*6A	N*31A(Vin>200V) <N*14A(Vin=230V)	<N*18A N*3A<Isc<N*5A
Over-voltage Protection	15V		30V		60V			75V
Operating Temperature	-10° to +65°C			-10° to +45°C	-10° to +65°C	-10° to +40°C	-10° to +45°C	-10° to +40°C
Walk-in Time	<1 sec							
Hold-up Time (fully loaded)	40ms	20ms	20ms	10ms	15ms	10ms		
Output Current Indication	10 LED's bar-graph (1st LED indications operation only)							
Active Current Sharing	±10% accuracy at full load							

GENERAL		
System Controller [2]		Full status monitoring and communication with a PC, dedicated Graphical User Interface
Withstand Voltage (1 min) [3]		3000Vac INPUT / OUTPUT, 1500Vac INPUT / GND, 1000Vdc OUTPUT / GND
Humidity		<95% non-condensing, equiped with standard PS1006 rack
Storage Temperature		-20° to 80° C
EMC		EN 300 386-2 V1.1.1.3 (1997), EN55022, EN6100-4-2, 3, 4, 5, 6, 11, EN 61000-3-2 and EN 61000-3-3
Safety		Complies with IEC950, EN60950
Dimensions	Subrack	19"(W) x 3U (H) x 320mm (D) w/o terminals (360mm with terminals)
	Rectifier Module	60mm (W) x 135mm (H) x 235mm (D)
Weight (Kg)	Subrack[1]	(N*1KG)+4.2Kg (fully equipped system - max.10.2Kg)
	Rectifier Module	1Kg
ELVD		
Max. Current Withstand		2x60 ADC or 1x100A
Trip Voltage Levels [4]		Disconnect:42±0.5Vdc, Reconnect (AC line recovers): 49±0.5Vdc

1. N=number of modules
2. Basic Shelf 1 has V/A meter. Basic Shelf 2 has a system controller.
3. Equipment DC test voltage is applied to overcome Y-capacitors leakage current to ground. Output is floating (not grounded) during test.
4. Programmable with SC1006 if included
5. N*18A to N*12A decreases linearly for Vin<120V [N*12A (for Vin=85V)]

All specifications are subject to change without prior notice

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