

Revised: May 21, 2009

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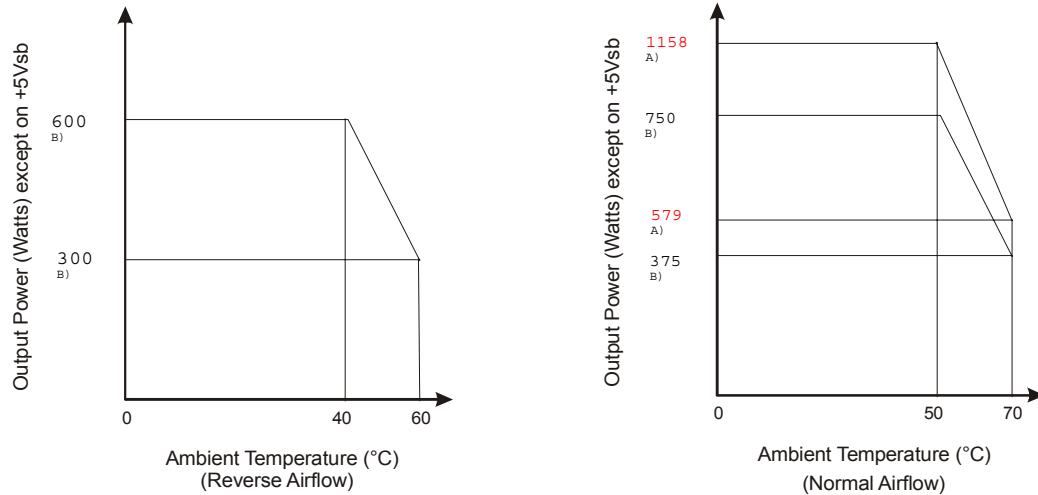
To comply with the published safety standards, the following must be observed when using this power supply.

1. Excluding +5Vsb, maximum continuous total output power on DC/DC modules is **1158W** at 200-240Vac / 254-300Vdc input voltage, and **750W** at 100-240Vac / 120-300Vdc input voltage using normal airflow direction at 50°C maximum ambient temperature and 600W at 100-240Vac / 120-300Vdc input voltage at reverse airflow direction at 40°C max. ambient temperature. Output power decreases 2.5% per °C from 50°C to 70°C ambient temperature for normal airflow and 40°C to 60°C ambient temperature for reverse airflow, except for +5Vsb.
2. The power supply is intended for use as a component part of other equipment. When installing the power supply and making input and output connections, the relevant safety standards e.g. UL 60950-1; IEC 60950-1; EN 60950-1; CSA C22.2 No. 60950-1-03; **UL 60601-1; IEC 60601-1; EN 60601-1; CSA C22.2 No. 60601-1** must be complied with, especially the requirements for creepage distances, clearances and distance through insulation between primary wiring and earth or secondary (SELV) wiring.
3. The power supply is approved and certified for the rated voltage range AC 100V-240V/200-240V or DC 120Vmin-300Vmax/254Vmin-300Vmax.
4. The fuses (F201 & F202) should only be replaced by 16A, 250V, Type SP manufactured by Schurter **or Type 216016.MXEP manufactured by Littelfuse.**
5. The disconnection from the line must be in the end system.
6. The AC/DC input connector has not been evaluated at component level. Evaluation shall be made when it is connected to the end system.
7. The built-in converter shall be powered from DC source, which is rectified from a mains supply voltage not exceeding AC 250V.
8. Hazardous voltage exists in the primary circuits. Disconnect power supply before servicing.
9. In case of failure, this power supply must be returned to Astec Authorized Service Station for Servicing to ensure compliance with safety requirements.
10. The power supply has a double pole input connector and equipped with a fuse on the neutral line.

Caution: Double pole/neutral fusing power supply
11. The earth wire must be connected only to the earthing point, which is marked with the earth symbol. If the earth wire is connected by a screw, the wire must have an annular eyelet and has to be adequately locked against accidental loosening.
12. This Power Supply is designed for TN-S-power system.
13. This power supply is part of an EDP-System. It is not equipped with a power cord. A safety agency (e.g. CSA, VDE) approved power cord and plug, with appropriate wire gauge for the rated input current, must be provided together with EDP-System by the End System Manufacturer.
14. This power supply is CE marked following the provisions of the Low Voltage Directive, **2006/95/EC.**

CE

POWER DERATING CURVE VS. TEMPERATURE



Notes:

- A) -200-240 Vac / 254Vmin - 300Vmax dc input voltage (High Range)
 B) -100-240 Vac / 120Vmin - 300Vmax dc input voltage (Wide Range)

Output Rating Configuration

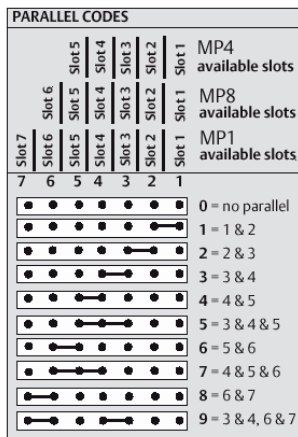
		Slot #1			Slot #2			Slot #3			Slot #4			Slot #5 (6 & 7)			A	X X X									
Intelligent	Medium	Power	Case Power	O/P Module Code	O/P Voltage Code	O/P Voltage Code	i Module Option	O/P Module Code	O/P Voltage Code	O/P Voltage Code	i Module Option	O/P Module Code	O/P Voltage Code	O/P Voltage Code	i Module Option	O/P Module Code	O/P Voltage Code	O/P Voltage Code	i Module Option	Parallel Code	Option Code	Software Code	Modify Code	Modify Code	Modify Code		
Case Code Standard				O/P Module Code						O/P Voltage Code						Parallel Code						Option Code					
4 = 5"x10", 5 slot, 400-600W				1 = 210 W Single 1 Slot						A=2V N=15V			0 = no parallel			0 = no options						1 = Reverse Air					
6 = 5"x11", 5 slot, 600-800W				2 = 360 W Single 2 Slot						B=2.2V O=18V			1 = slots 1 & 2			1 = Reverse Air						3 = Global Enable					
8 = 7"x10", 6 slot, 800-1000W				3 = 600 W 750W Single 3 Slot						C=3V P=20V			2 = slots 2 & 3			3 = Fan off with Inhibit						4 = Fan off with Inhibit					
1 = 8"x11", 7 slot, 1000-1200W				4 = 144 W Dual 1 Slot						D=3.3V Q=24V			3 = slots 3 & 4			5 = opt 1 & 3						7 = opt 1 & 4					
				5 = 1500W Single 4 Slot						E=5V R=28V			4 = slots 4 & 5			6 = opt 1 & 4						8 = opt 1, 3 & 4					
				- = 36 W Triple 1 Slot						F=5.2V S=30V			5 = slots 3 & 4 & 5			9 = Future						M = Low Leakage					
Case Code Intelligent										G=5.5V T=33V			6 = slots 5 & 6			N = Low Leakage + opt						P = Low Leakage + opt					
4 = 5"x10", 5 slot, 750-1100W										H=6V U=36V			7 = slots 4, 5 & 6			R = Low Leakage + opt						1 = Module Enable					
8 = 7"x10", 6 slot, 1000-1200W										I=8V V=42V												2 = Constant Current					
1 = 8"x11", 7 slot, 1200-1500W										J=10V W=48V																	
										K=11V X=54V																	
										L=12V Y=60V																	
										M=14V Z=Special																	

Note: A "7" after the Module/Voltage code in place of the "-" indicates that this module has been modified for use with remote sensing after redundant (Or-ing) diodes.

Output Module Voltage/Current

Voltage	Voltage Code	Single Output Module Code			Dual Output		Triple Output		
		1	2	3	V1	V2	V1	V2	V3
2V	A	35A	60A	150A	—	10A	—	—	2A
2.2V	B	35A	60A	150A	—	10A	—	—	2A
3V	C	35A	60A	150A	—	10A	—	—	2A
3.3V	D	35A	60A	150A	—	10A	—	—	2A
5V	E	35A	60A	150A	10A	10A	—	—	2A
5.2V	F	35A	60A	150A	—	10A	—	—	2A
5.5V	G	34A	58A	137A	—	10A	—	—	2A
6.0V	H	23A	42A	80A	—	10A	—	—	2A
8.0V	I	20A	36A	80A	—	—	1A	1A	1A
10V	J	18A	32A	75A	—	—	1A	1A	1A
11V	K	17A	31A	68A	—	—	1A	1A	1A
12V	L	17A	30A	62.5A	10A	4A	1A	1A	1A
14V	M	14A	21A	53.5A	9A	4A	1A	1A	1A
15V	N	14A	20A	50A	8A	4A	1A	1A	1A
18V	O	11A	19A	41.6A	—	—	—	0.5A	0.5A
20V	P	10.5A	18A	37.5A	—	—	—	0.5A	0.5A
24V	Q	8.5A	15A	31.3A	4A	2A	—	0.5A	0.5A
28V	R	6.7A	12.8A	26.8A	3A	2A	—	0.5A	0.5A
30V	S	6.5A	12A	25A	—	—	—	—	—
33V	T	6.2A	11A	22.7A	—	—	—	—	—
36V	U	5.8A	10A	20.8A	—	—	—	—	—
42V	V	4.2A	7.5A	17.9A	—	—	—	—	—
48V	W	4.0A	7.5A	15.6A	—	—	—	—	—
54V	X	3.7A	6.0A	13.9A	—	—	—	—	—
60V	Y	3.5A	6.0A	12.5A	—	—	—	—	—

Ordering Information



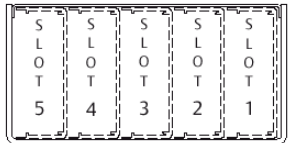
Non-std* Z *Special Voltage - Consult Factory for specifications*

* Note: Increments of current not shown can be achieved by paralleling modules (add currents of each module selected).

Case Size	Module/Voltage/Option Codes First - Module Code Second - Voltage Code Third - Option Code	Case Option Codes	Software Code	Hardware Code
iMP1	- 3L1 - 2E2 - 1Q1 - 4LL1 -	00	AAA	###
Case Size 4 = 2.5' x 5' x 10"; 700W - 900W, 5 Slots 8 = 2.5' x 7' x 10"; 1000W - 1200W, 6 Slots 1 = 2.5' x 8' x 11"; 1200W - 1500W, 7 Slots	Module Codes Module/Voltage/Option Codes Module Codes: (None) = 36W Triple O/P (1 slot) 1 = 210W Single O/P (1 slot) 2 = 360W Single O/P (2 slot) 3 = 750W Single O/P (3 slot) 4 = 144W Dual O/P (1 slot) 5 - 9 = Future Voltage Codes: See <i>Output Module Voltage/Current</i> table above Option Codes: 0 = Standard 1 = Module Enable 2 = Constant Current 3 - 9 = Future	Case Option Codes First Digit 0 - 9 = Parallel Code Second Digit 0 = No Options 1 = Reverse Air 2 = Extended Hold Up (1 slot)* 3 = Global Enable 4 = Fan Off w/Inhibit 5 = Opt 1 + Opt 3 6 = Opt 1 + Opt 4 7 = Opt 3 + Opt 4 8 = Opt 1 + 3 + 4 9 = Future *Meets Semi F47	Factory Assigned for Modified Standards	

iMP Module Specifications

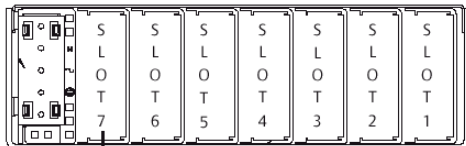
iMP4



iMP4 = 2.5" x 5" x 10" 5 available slots

90-264VAC	Input	180-264VAC
700W max.		1100W max.

iMP8 and iMP1



iMP8 = 2.5" x 7" x 10" 6 available slots	85-264 VAC	180-264VAC
iMP1 = 2.5" x 8" x 11" 7 available slots	1000W max.	1200W max.
	1200W max.	1500W max.

Pin Connectors

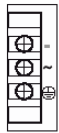


Figure 1. AC Input

AC Input

Pin No.	Function
1	AC Neutral
2	AC Line (Hot)
3	Chassis (Earth) Ground

PFC Input Connector (control and signals)

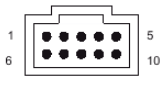


Figure 2. Connector J1

Pin No.	Function
1	Input ACOK - "Emitter"
2	Input ACOK - "Collector"
3	Global DCOK - "Emitter"
4	Global DCOK - "Collector"
5	External Sync
6	Global Inhibit / Optional Enable Logic "0"
7	Global Inhibit / Optional Enable Logic "1"
8	Global Inhibit / Optional Enable Return
9	+5VSB Housekeeping
10	+5VSB Housekeeping Return

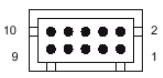


Figure 3. Connector J2

I²C Bus Output Connector

Pin No.	Function
1	5VCC External Bus
2	Serial Data Signal
3	Secondary Return
4	Serial Clock Signal
5	Address Bit 2
6	Address Bit 1
7	Address Bit 0
8	No connection

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