

## HDC250P SERIES:



### 250 Watt Quad Output Models

- 6.67 x 3.94 x 1.59"

#### Features:

- 66-160VDC Input Range
- Wide Operating Temperature Range of -40 ~ +75°C
- Ideal for Railway Applications
- Internal OR'ng Diodes for N+1 Redundant Operation
- Active Current Sharing
- PICMG Compliant
- International Safety Approvals
- 2 Year Warranty

#### INPUT:

Input Voltage	66-160 VDC
Inrush Current	10.5A at 110VDC Nominal
Input Current	2.8A @ 110VDC Nominal
UVP/OVP	Installed
Reverse Input Protection	Installed

#### GENERAL:

Efficiency	75% minimum (230 VAC / Full Load)
Operating Temperature	-40-70°C, derate linearly to 60% Load from 50°C to 70°C
Storage Temperature	-40°C to +85°C
Cooling	200 lfm airflow airflow required for full load
Operating Humidity	5-90% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis

#### OUTPUT:

Adjustment Range	available for V1, V2 & V3
Voltage Trim	available for V1 & V2
Minimum Load	n/a
Load Regulation	V1 = ±1% / V2 = ±5% (max)
Line Regulation	±1% (Typical)
Ripple & Noise	±1% typ. pk-pk @ 20MHz
Overload Protection	120-130% of max power (Hiccup Mode)
Over Voltage	Latching before 130% of nominal
Short Circuit Protection	Trip without damage & auto-recovery
Transient Response	<134mV, recovers <500µs following a 25% load change Turn-on & off overshoot < 5% over nominal voltage

#### EMC:

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ±2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% reduction, 5s
Fluctuations & Flicker	EN61000-3-3

#### STATUS & CONTROL:

Remote Sense	Available for V1, V2 & V3
Fault	Included
Current Share	Available for V1, V2 & V3
Remote on/off	Included
Thermal Sensing	Thermostat Connection

#### APPROVALS:

Emissions	EN55022 "B", FCC Part 15 Subject J Class B
Safety Approvals	IEC 60950-1

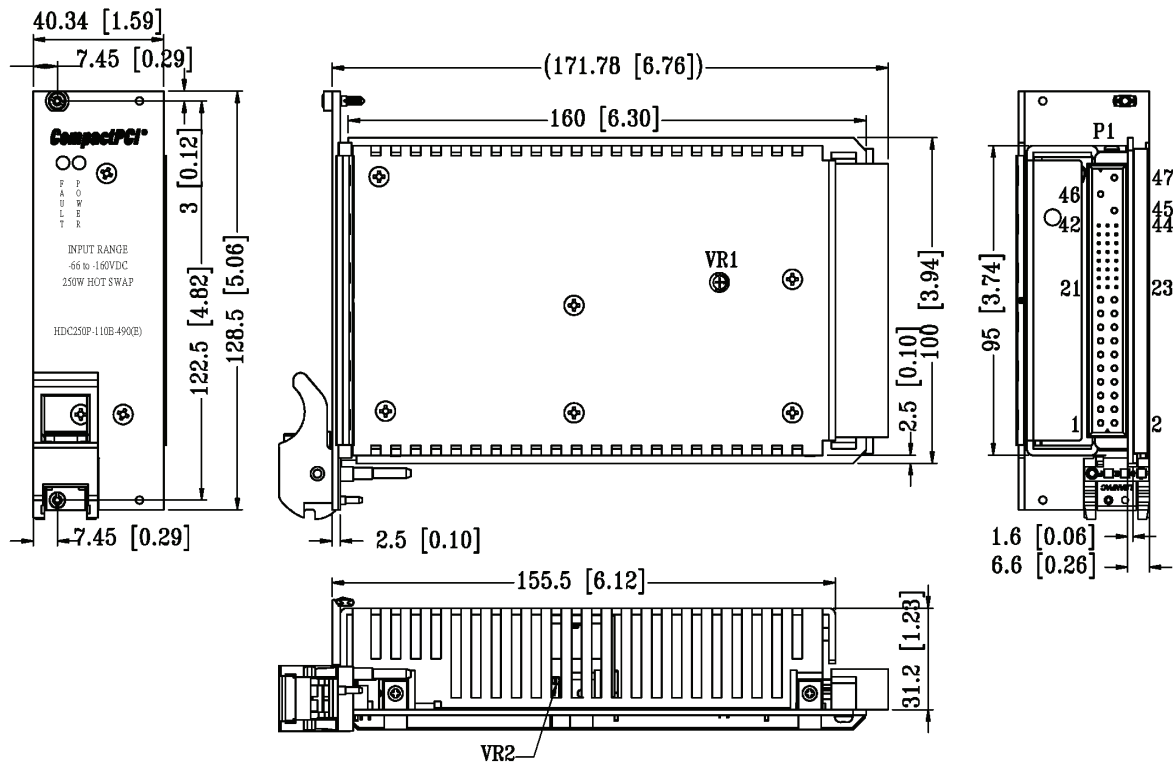
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### Output Specifications:

Active PFC	V1 TYP MAX PEAK				V2 TYP MAX PEAK				V3 TYP MAX PEAK				V4 TYP MAX PEAK			
	V1	TYP	MAX	PEAK	V2	TYP	MAX	PEAK	V3	TYP	MAX	PEAK	V4	TYP	MAX	PEAK
HDC250P-110B-490(E)	5V	25A	33A	33A	3.3V	18A	33A	33A	5A	5A	5.5A	6.0A	-12V	0.5A	1.0A	1.5A

Max. load is the continuous operating load of each rail. But the max. load of each rail can't be drawn from all outputs at the same time.  
Peak loads not to exceed 10% duty cycle or 60 seconds

### ENVELOPE DRAWING:



### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	DC INPUT			QUAD OUTPUT													STATUS/CONTROL				
	-Vin	+Vin	G	VO1	S+	S-	Adj.	C.S.	VO2	S+	Adj.	C.S.	VO3	S+	C.S.	VO4	DC COM	EN#	DEG#	INH#	FAL#
CNTR & PIN #	47	46	45	1,2,3,4	30	34	29	35	13,14,15,16,17,18	33	32	41	20	36	44	21	5,6,7,8,9,10,11,12,19,22,24	27	38	39	42

Mating connector: PCIH47F400A1.