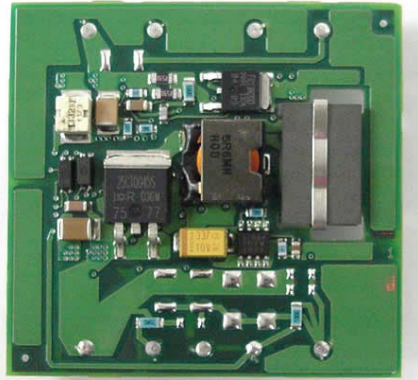


Product Brief: Belleta™ iHC Series –Half Brick (Industry Standard 50W Compatible)



Features

- **Standard 50W Half Brick**
- **High efficiency –up to 89%**
- **Up to 30W of output power in high ambient temperature, low airflow environments with minimal power derating**
- **Basic insulation – 1500Vdc**
- **Choice of remote on/off configuration**
- **Industry standard 50W output voltage adjustment**
- Remote Sense
- Constant switching frequency
- Full, auto-recovery protection:
 - Input under voltage
 - Output over voltage
 - Current limit
 - Short circuit
 - Thermal limit
- UL 60950 (US and Canada), VDE 0805, CB scheme (IEC950) Safety markings pending
- CE Mark (EN60950) pending
- Multiple patents pending

Belleta™ iHC Series DC/DC Power Modules 48V Input, 7.5A Output Half Brick

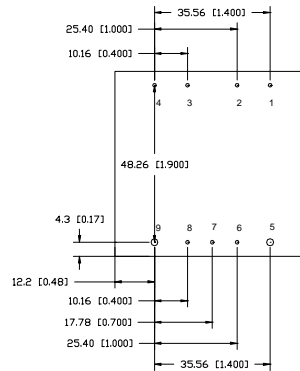
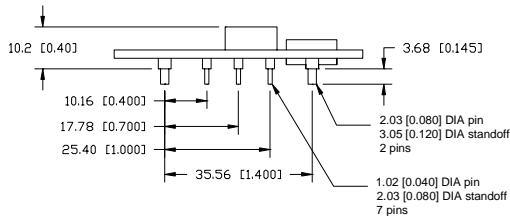
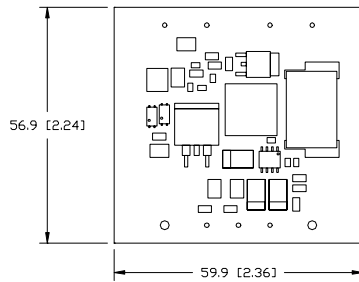
The Belleta Series offers an **industry standard half brick** power module capable of full load at ambient temperatures in excess of **80°C in natural convection**. In environmentally harsh operating conditions, it is a very cost effective drop-in replacement for all conventional industry standard 30 to 50W half bricks. The power modules offer **better electrical and thermal performance, and lower cost** than many other suppliers' half brick product offerings.

Base Product Code	Input Voltage	Output Voltage	Output Current	Efficiency
iHC48006A050V	36-75V	5.0V	6.0A	89%
iHC48008A033V	36-75V	3.3V	7.5A	87%

Typical Performance

Input Characteristics		
Operating input range	36-75V	
Transient input voltage	100V	100mS max
Turn-on voltage	33V	
Turn-off voltage	31.5V	
Start-up time	130 mS	On/Off to 90% Vout
Maximum input current	1.6A	Input 0-75V, Io,max
Output Characteristics		
Output voltage tolerance	+/- 3% max	Over line, load, and temp to end of life
Efficiency	see product table	Io,max
Line regulation	1 mV	Over rated input
Load regulation	1 mV	Over rated load
Output voltage adjustment	90%-110%	%Vo,nom
Output ripple	50 mVp-p	20MHz bandwidth
Dynamic response	Load step 25% of Io,max	
Transient voltage	190 mV	slew rate =0.1A/us
Recovery time	50 uS	
Ripple frequency	300 kHz	Fixed
Protection		
Current limit inception	150% of Io,rated	
Short circuit	Io,rated	Auto-recovery hiccup
Output overvoltage	125% of Vout,nom	Auto-recovery hiccup
Environmental		
Operating temperature	-40C to 110C	Measurement point in full datasheet

Product Brief: Belleta™ iHC Series –Half Brick (Industry Standard 50W Compatible)



Top view - Footprint

PIN	FUNCTION	PIN	FUNCTION
1	Vin (+)	5	Vout (+)
2	On/Off	6	Sense (+)
3	Case	7	Trim
4	Vin (-)	8	Sense (-)
		9	Vout (-)

Ordering Information

Product Identifier	Package Size	Platform	Input Voltage	Output Current/Power	Output Units	Main Output Voltage	# of Outputs	Safety Class	Feature Set
i	H	C	48	006	A	050	V	- 0	00
Innoveta Technologies	Half-brick	Belleta 50W compatible	36-75V	006 – 6 008 – 8	Amps	050 – 5.0V 033 – 3.3V	Single		00 – Standard

Feature Set	On/Off Logic	Pin Length
00	Positive	0.145"
01	Negative	0.145"
02	Positive	0.110"
03	Negative	0.110"