

# FLATPAC Series

50-600 WATTS - AC/DC LOW PROFILE SINGLE & MULTIPLE OUTPUT

OPEN FRAME & ENCLOSED

## FEATURES

- Inputs: 115/230VAC autoranging
- VDE/FCC Class A, Class B
- 1,2 or 3 Output Models
- Any output: 1 to 95VDC
- UL, CSA, TÜV, VDE, BABT, CE, C-Tick
- Remote sense and current limit
- OVP and thermal shutdown
- Any output 1 to 95V



## SPECIFICATIONS

INPUT		
Voltage	110-240VAC Auto ranging	
Isolation	Input to output: 4,242Vdc Input to FG: 2,121Vdc Output to FG: 707Vdc	
Efficiency	78%-90%	
OUTPUT		
Product grade	C, I	E
Output voltage	See selection table	
Low-High	50%–110%	70%–110%
Voltage trim program	Yes	Yes
Output power	See selection table	
Current limit	Yes	Yes
Current limit setting	105%–125%	105%–135%
OVP set point	125%	125%
OVP and thermal	Yes	Yes
Temperature shutdown	Yes	Yes
Set point accuracy	0.5%	1%
Output ripple	1.5% p-p	3% p-p
Load/line regulation	0.05% typ	0.5% typ
Holdup time	40mS	40mS
Remote sense	Yes	Yes
Compensation	0.5V	0.5V
Baseplate operating Temperature.	85°C	85°C
Shutdown temperature	95°C	95°C
BUS OK status	Yes	Yes
AC OK status	Yes	Yes
Module disable	Yes	Yes

## STANDARDS

Safety standards	UL 1604, UL60950-1, UL/CSA/EN/IEC 60950-1
Surge	Meets IEC801-5, Level 3
C-Tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	Conducted emissions EN55022, FCC Class B, radiated emissions Class A EMC immunity
EMC immunity	IEC 61000-4,2,3,4,5,6,8 and 11

## MECHANICAL

Dimensions (LxWxH)	Single Output: VI-LU: 235x64x35mm. Single Output: VI-MU: 235x125x35mm. Single Output: VI-NU: 235x188x35mm. Dual Output: VI-PU: 235x125x35mm. Dual Output: VI-QU: 235x188x35mm. Triple Output: VI-RU: 235x188x35mm.
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## SELECTION TABLE

Single output	VI-LU [ a ] – [ b ] [ c ] 50–200W VI-MU [ a ] – [ b ] [ d ] 200–400W VI-NU [ a ] – [ b ] [ e ] 300–600W
Dual output	VI-PU [ a ] [ a ] – [ b ] [ c ] [ c ] 100–400W VI-QU [ a ] [ a ] – [ b ] [ d ] [ c ] [ c ] 150–600W
Triple output	VI-RU [ a ] [ a ] [ a ] – [ b ] [ c ] [ c ] [ c ] 150–600W

Please substitute selection character, e.g. [ a ] [ b ] [ c ], with value designator in the appropriate table below.  
# For conduction cooled models add – cc at end of model number.

A=Output Voltage		B=Product Grade		C=Output Power	
Z=2V	Y=3.3V	E=0°C to +85°C Case		Vout >= 5V	Vout < 5V
0=5V	M=10V	C=0°C to +85°C Case		Y=50W	10A
1=12V	2=15V	I=-30°C to +85°C Case		X=75W	15A
3=24V	L=28V			W=100W	20A
4=48V				V=150W	30A
				U=200W	40A

D=Output Power / Current E=Output Power / Current				Options
Vout >= 5V	Vout < 5V	Vout >= 5V	Vout < 5V	
W=100W	20A	S=300W	60A	CC Conduct'n Cooled
V=150W	30A	P=450W	90A	BM Bat Mod
U=200W	40A	M=600W	120A	BC Bat Mod + CC
S=300W	60A			
Q=400W	80A			

Please consult Powerbox office for other output voltage

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## TECHNICAL ILLUSTRATIONS ALL MODELS

### Inputs

- 1 MOD DIS-
- 2 MOD DIS+
- 3 AC OK-
- 4 AC OK+
- 5 BUS OK-
- 6 BUS OK+
- 7 AC IN L1
- 8 AC IN L2/N
- 9 CHASSIS GND

Input connector,  
Amp P/N 644488-6;  
mating connector,  
MTA-100 IDC Series

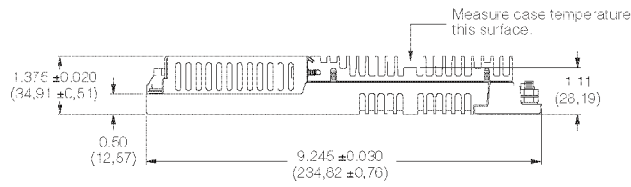
Terminals for  
#18-12 AWG wire

### Outputs

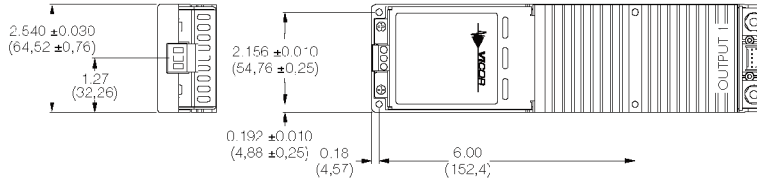
- 10 +OUT (#10-32 Stud)
- 11 +OUT
- 12 +SENSE ( $V_{TRIM}^*$ )
- 13 TRIM ( $I_{TRIM}^*$ )
- 14 -SENSE ( $I_{MON}^*$ )
- 15 -OUT
- 16 -OUT (#10-32 Stud)

Output connector,  
Amp P/N 644486-5;  
mating connector,  
MTA-100 IDC Series

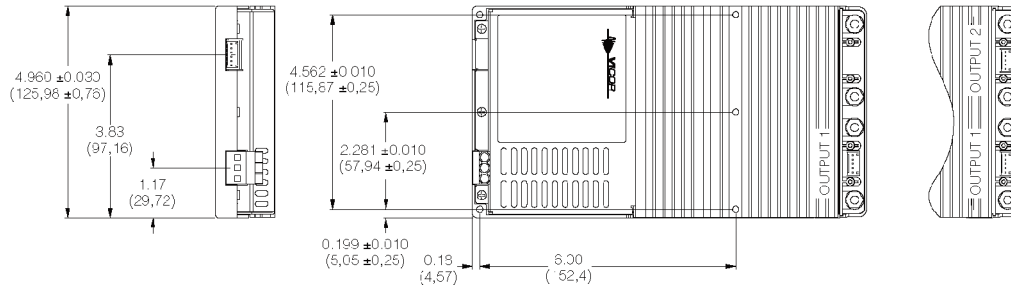
\*On FlatPACs with BatMODs only.



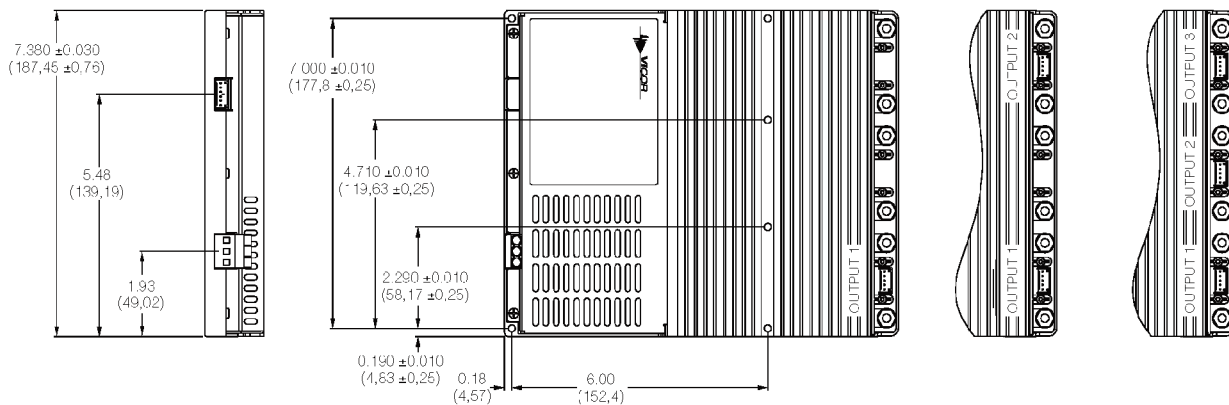
## LU SERIES



## MU,PU SERIES



## NU, QU, RU SERIES



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