

100W Quarter Brick Type 14:1 High Input Voltage Isolated DC - DC Converters



FEATURES

- ◆ Fully Protected (OTP/OCP/OVP/UVLO) / 5000m Operating Altitude
- ◆ 3000Vac I/O Isolation / Regulated Outputs
- ◆ Low No Load Consumption
- ◆ Shock & Vibration EN50155 (EN61373) Compliant
- ◆ Fire & Smoke EN45545-2 Compliant
- ◆ EN50155 Compliant With External Circuit

SPECIFICATIONS

Input Voltage Range 72V(Range12~160V)
Undervoltage lockout Turn-on: 10.7~11.7VDC
Turn-off: 9.7~10.7VDC
Lockout Hysteresis: 1.0VDC

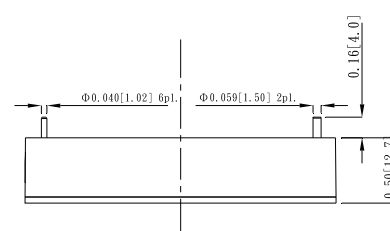
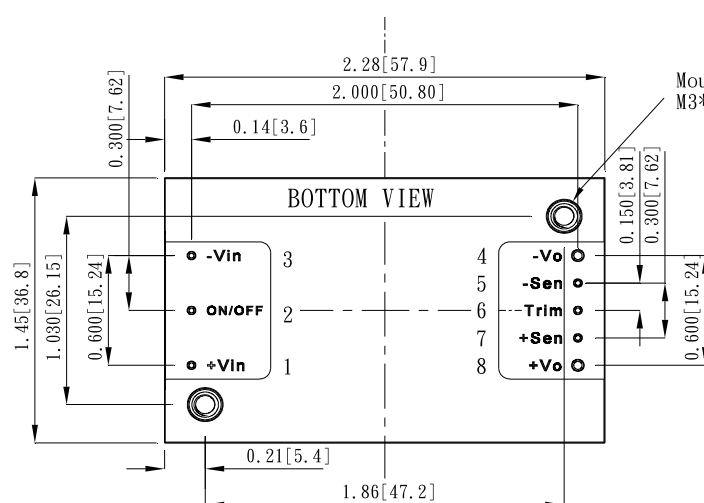
Remote On/Off Logic	See note
Input Filter.....	Pi Type
Voltage Accuracy.....	±1% max
Output Voltage Trim Range (others).....	-20~+15%
Output Voltage Trim Range (54V)	-20~+10%
Temperature Coefficient	± 0.02%/°C max
Short Circuit Protection	Continuous, Auto Recovery
Line Regulation (High line to Low line).....	±0.2% max
Load Regulation (Full load to No Load).....	±0.2% max
Over Voltage Protection (others).....	117~140%
Over Voltage Protection (54V)	112~140%
OCP(Hiccup mode, Auto Recovery)	110%~180%
Isolation Voltage	Input to Output
	Input to Case(Base Plate)
	Output to Case(Base Plate).....
Isolation Resistance.....	100M Ω min
Operating Case Temperature.....	-40°C to +105°C
Storage Temperature Range.....	-55°C to +125°C
Case Material.....	Aluminum Baseplate w/plastic Case
Weight.....	86g

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	No Load Input Current	EFF. Typ. %	Capacitor Load Max.
DUQB100-91-X	12-160	5	20.0	20mA	87.5	20000µF
DUQB100-92-X	12-160	12	8.30	20mA	88	8300µF
DUQB100-93-X	12-160	15	6.70	20mA	89	6700µF
DUQB100-99-X	12-160	24	4.20	15mA	89	4200µF
DUQB100-99C-X	12-160	28	3.60	15mA	90	3600µF
DUQB100-99D-X	12-160	54	1.85	20mA	90	1000µF
DUQB100-91N-X	12-160	5	20.0	20mA	87.5	20000µF
DUQB100-92N-X	12-160	12	8.30	20mA	88	8300µF
DUQB100-93N-X	12-160	15	6.70	20mA	89	6700µF
DUQB100-99N-X	12-160	24	4.20	15mA	89	4200µF
DUQB100-99CN-X	12-160	28	3.60	15mA	90	3600µF
DUQB100-99DN-X	12-160	54	1.85	20mA	90	1000µF

Note

- Note
1. Nominal Input Voltage 72 VDC
 2. An External Input Capacitor 220uF for All Models are Recommended to Reduce Input Ripple Voltage
 3. Remote ON/OFF Logic Compatibility.....Open collector Refer To -V Pin
- Suffix = Blank, Positive Remote Logic.**
- | | |
|-----------------------------|------------------------------|
| Logic Low (Module OFF)..... | 0 to < 1.2V |
| Logic High (Module ON)..... | 3.5 or open circuit to <160V |
- Suffix = N, Negative Remote Logic.**
- | | |
|------------------------------|------------------------------|
| Logic High (Module OFF)..... | 3.5 or open circuit to <160V |
| Logic Low (Module ON)..... | 0 to < 1.2V |
- Suffix "-X" = -C, clear mounting insert (3.2mmDIA.)**
- Suffix "-X" = -B, with Bus & External UVLO function**
- Suffix "-X" = -C-B, clear mounting insert (3.2mmDIA.) and with Bus & External UVLO function**

MECHANICAL DRAWING (Unit: inch(mm))



PIN CONNECTION			
PIN	Function	PIN	Function
1	+V Input	5	–Sense
2	On/Off	6	Trim
3	–V Input	7	+Sense
4	–V Output	8	+V Output

Note : All Dimensions in Inches [mm]

Tolerance : Inches: x.xx = ± 0.02 , x.xxx = ± 0.010 ; Minimeters: x.x = ± 0.5 , x.xx = ± 0.25