

YD12-16 Series

INPUT CHARACTERISTICS

Parameter	Min	Nom	Max	Units
Input Voltage - 12V types	9	12	18	Vdc
Input Voltage - 24V types	18	24	36	Vdc
Input Voltage - 48V types	36	48	72	Vdc
Input Voltage - 110V types	66	110	160	Vdc

OUTPUT CHARACTERISTICS

Parameter	Value	Notes
Setpoint Accuracy	±1% / ±3%	Vo1 / Vo2
Line Regulation	±0.2%	
Load Regulation	±0.5%	
Dynamic Response	3%Vo Pk deviation, 200μs settling time	50~75% load / 50~25% load
Ripple and Noise	50mVp-p / 100mVp-p / 200mVp-p	Vo≤5Vdc / Other / Vo≥48Vdc
Temperature Coefficient	±0.02%/°C	

GENERAL CHARACTERISTICS

Parameter	Value	Notes
Isolation Voltage	1500Vdc/1min/1mA	Input-Output
Switching Frequency	300KHz	
MTBF	2×10 ⁶ h	Bellcore TR332, 25°C
Case Temperature	Industrial: -25~+95°C; Military AD: -40~+95°C; Military AG: -40~+95°C; Military AH: -55~+105°C	
Storage Temperature	-55~+125°C	
Relative Humidity	10%~90%	
Short-Circuit Protection	Continuous, Automatic Recovery	

SELECTION GUIDE

12W Single Output

Model	Input Voltage (Vdc)	Output Voltage (Vdc) Vo1/Vo2	Output Current (A) Io1/Io2	Efficiency
YD12-12S03	9~18	3.3	3	76%
YD12-12S05	9~18	5.05	2.4	80%
YD12-12S12	9~18	12	1	81%
YD12-12S15	9~18	15	0.8	81%
YD12-12S24	9~18	24	0.5	79%
YD12-24S03	18~36	3.3	3	76%
YD12-24S05	18~36	5.05	2.4	80%
YD12-24S12	18~36	12	1	82%
YD12-24S15	18~36	15	0.8	83%
YD12-24S24	18~36	24	0.5	82%
YD12-48S03	36~72	3.3	3	79%
YD12-48S05	36~72	5.05	2.4	80%
YD12-48S12	36~72	12	1	83%
YD12-48S15	36~72	15	0.8	83%
YD12-48S24	36~72	24	0.5	82%
YD12-110S05	66~160	5.05	2.4	80%
YD12-110S12	66~160	12	1	83%
YD12-110S15	66~160	15	0.8	83%

12W Dual Output

Model	Input Voltage (Vdc)	Output Voltage (Vdc) Vo1/Vo2	Output Current (A) Io1/Io2	Efficiency
YD12-24D05	18~36	+5.05/-5.05	+1.2/-1.2	80%
YD12-24D05-05	18~36	+5.05/-5.05	+2/-0.4	80%
YD12-24D12	18~36	+12/-12	+0.5/-0.5	82%
YD12-24D15	18~36	+15/-15	+0.4/-0.4	82%
YD12-48D05	36~72	+5.05/-5.05	+1.2/-1.2	82%
YD12-48D05-05	36~72	+5.05/-5.05	+2/-0.4	82%
YD12-48D12	36~72	+12/-12	+0.5/-0.5	83%
YD12-48D15	36~72	+15/-15	+0.4/-0.4	83%

16W Single Output

Model	Input Voltage (Vdc)	Output Voltage (Vdc) Vo1/Vo2	Output Current (A) Io1/Io2	Efficiency
YD16-24S05	18~36	5.05	3	82%
YD16-24S12	18~36	12	1.25	85%
YD16-24S15	18~36	15	1	85%
YD16-48S03	36~72	3.3	3.6	81%
YD16-48S05	36~72	5.05	3	83%
YD16-48S12	36~72	12	1.25	85%
YD16-48S15	36~72	15	1	85%
YD16-110S05	66~160	5.05	3	83%
YD16-110S12	66~160	12	1.25	85%
YD16-110S15	66~160	15	1	85%

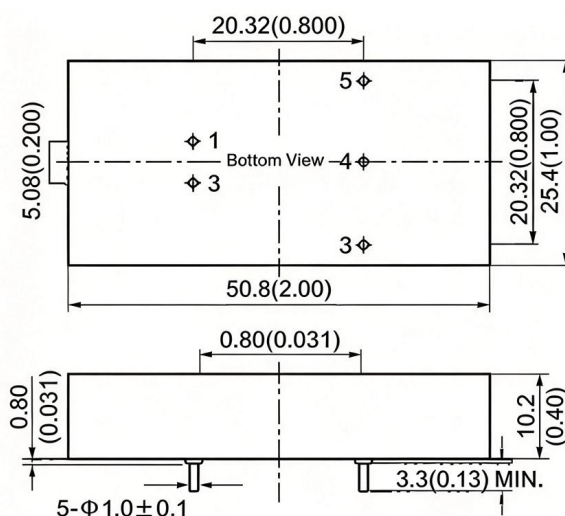
16W Dual Output

Model	Input Voltage (Vdc)	Output Voltage (Vdc) Vo1/Vo2	Output Current (A) Io1/Io2	Efficiency
YD16-24D12	18~36	+12/-12	+0.63/-0.63	85%
YD16-24D15	18~36	+15/-15	+0.5/-0.5	86%
YD16-48D12	36~72	+12/-12	+0.63/-0.63	85%
YD16-48D15	36~72	+15/-15	+0.5/-0.5	86%
YD16-110D12	66~160	+12/-12	+0.63/-0.63	85%
YD16-110D15	66~160	+15/-15	+0.5/-0.5	85%

MECHANICAL DIMENSIONS

PIN CONNECTIONS

Pin	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	-Vo	Vo2
4	NP	COM
5	+Vo	Vo1





This power module belongs to the MICRC brand. Pin markings are consistent when viewed from either the top or bottom side. Polarity symbols (+, -) for input and output, along with the output COM terminal, are clearly marked on the module casing.