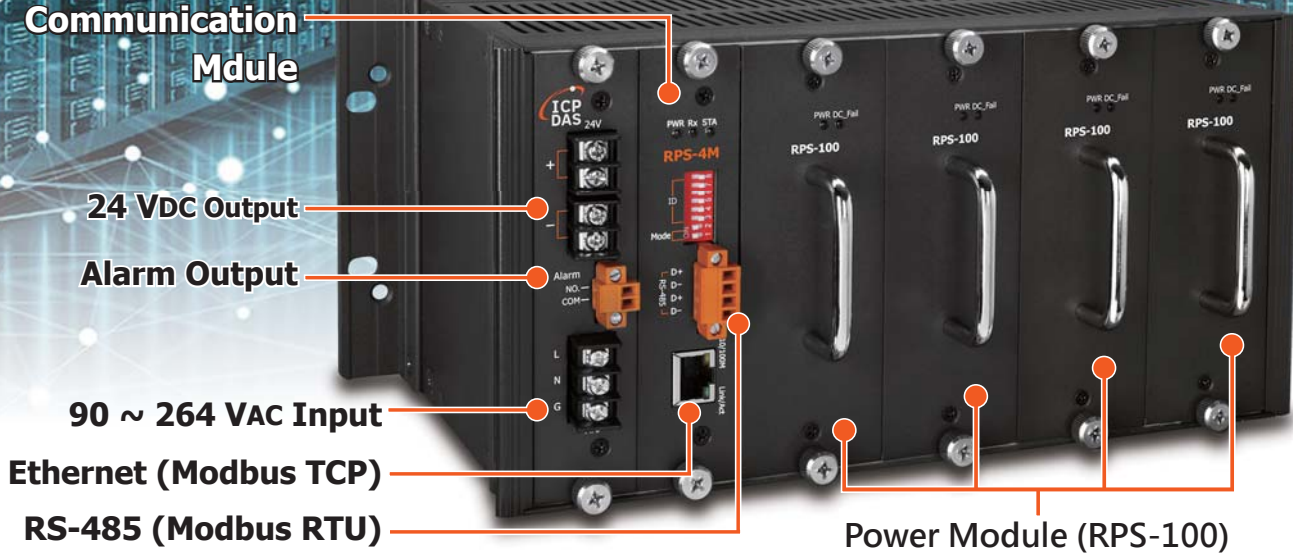


N+1 Redundant Power Supply

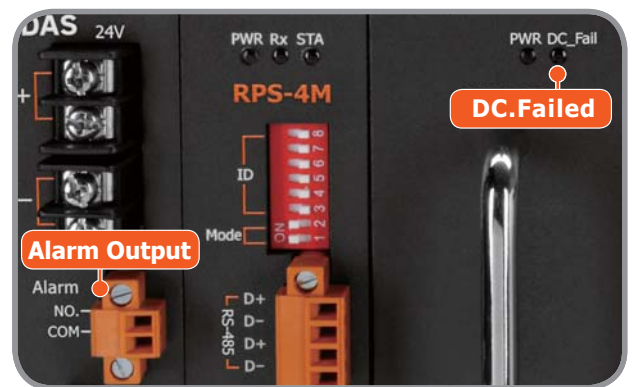
RPS-4M/W4



- 90 ~ 264 VAC to 24 VDC
- Each slot can plug in a 100W power module
- Power module supports hot swapping
- 4-slot design for N+1 Redundant
 - ★ With 4 power modules, the RPS can provide load capacity of 3 power modules.
 - ★ When one power module fails, the RPS can still guarantee the load capacity of 3 power modules.
- Built-in load balancing function

The loaded current is equally distributed to each power module to prevent one of them from failing due to overuse.
- Built-in power module diagnosis function
 - ★ Temperature
 - ★ Output Current
 - ★ Module failure (with one relay output)
 - ★ Used time
- Support Modbus RTU/TCP Protocol

Diagnostic information can be access via RS-485, Ethernet, Modbus RTU/TCP



Failure of communication module affects communication only.
Does not affect power input/output



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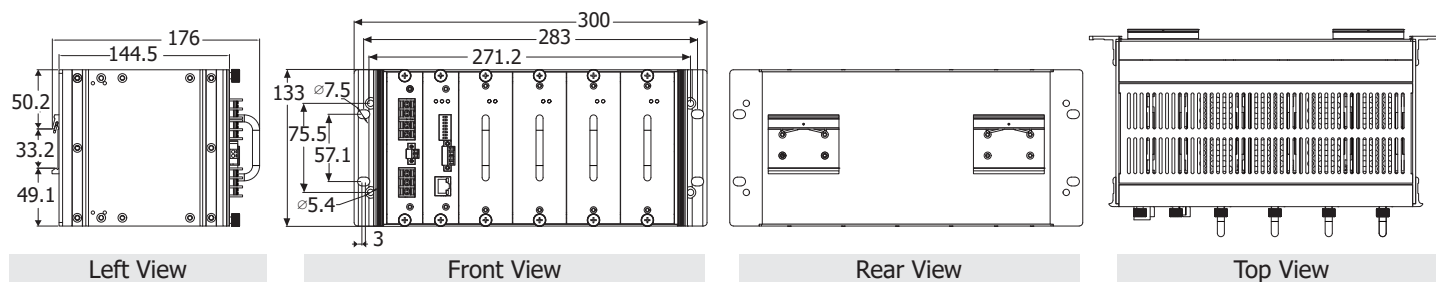
RPS-100 (Power Module) Specifications

Output	
DC Voltage	24 V
Rated Current	4.16 A
Current Range	0 ~ 4.16 A
Rated Power	100 W
Ripple & Noise (max.)	50 mVp-p
Voltage Range	23 ~ 25 V
Voltage Tolerance	±1.0%
Line Regulation	±1.0%
Load Regulation	±3.0%
Setup, Rise Time	1300ms, 120ms at full load
Hold Up Time (Typ.)	40ms at full load
Input	
Voltage Range	90 ~ 264 VAC
Frequency Range	47 ~ 63 Hz
Power Factor (Typ.)	PF=0.961/230VAC at full load, PF=0.985/115VAC at full load
Efficiency (Typ.)	86%
AC Current (Type)	1.01 A / 115 VAC 0.51 A / 230 VAC
Inrush Current	COLD START 30 A / 115 VAC 60 A / 230 VAC
Leakage Current	Earth < 3.5 mA , Touch < 0.25 mA
Protection	
Overload	110% ~ 200% fully protected from 110% to 200% load. (Automatic recovery)
Over Voltage	26.4 ~ 31.2 (Automatic recovery)
Environment	
Working Temperature	-20 ~ 50°C
Working Humidity	5 ~ 95% RH Non-condensing.
Storage Temperature	-40 ~ 85°C
Vibration	0.26 ~ 6.09 G Frequency Type: Sweep Frequency Frequency Range: 10 ~ 55 Hz Displacement: 1.0 mm Sweep Rate: 60 minute / cycle Number of cycle: 1 cycle / axis Direction: X , Y and Z axis
Safety & EMC	
Safety Standards	Design to meet 62368
Withstand Voltage	I/P-O/P: 3 KVAC I/P-FG: 1.8 KVAC O/P-FG: 0.5 KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500 VDC
EMC Emission	EN 55032 CISPR 32 & FCC Part 15 B CLASS B : System with 4 module in parallel
EMC Immunity	EN 55022, CISPR 22 & FCC Part 15, EN 61000-3-2, EN 61000-3-3, EN 61204-3 IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

RPS-4M (System) Specifications

COM Port		
Interface	RS-485, 4-pin screw terminal	
Protocol	Modbus RTU	
Data Format	N,8,1 / O,8,1 / E,8,1 / N,8,2	
Baud Rate	Init mode: Fixed 9600 bps Software Configuration: 1200 ~ 115200 bps	
Node Address	1 ~ 64 for hardware configuration 1 ~ 255 for software configuration	
Ethernet		
Interface	1 x RJ-45, 10/100 Base-TX	
Protocol	Modbus TCP	
Safety	Password and IP Filter	
Power Module Diagnosis		
Current	Range	0 A ~ 5 A
	Accuracy	±0.25A
Temperature	Range	0°C ~ 100°C
	Accuracy	±5°C
Used Time	Unit	Hour
LED Indicators		
Power	1 LED as power indicator	
Communication	1 LED as Modbus Rx indicator	
Status	1 LED as status indicator	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact, ±4 kV Air	
EFT (IEC 61000-4-4)	±2 kV for power line	
Surge (IEC 61000-4-5)	±2 kV for power line	
Power Requirements		
Input Voltage Range	90 ~ 264 VAC, 47 ~ 63 Hz	
Connector	3-pin screw terminal	
Mechanical		
Dimensions (W x L x H)	133 mm x 300 mm x 176 mm	
Installation	DIN-Rail or Wall-mounted	
Environment		
Operating Temperature	-20°C ~ +50°C	
Storage Temperature	-40°C ~ +85°C	
Humidity	10 ~ 90% RH, Non-condensing	

Dimensions (Unit: mm)



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