



**Automatización Eléctrica**

Especialistas en Automatización

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# Harsh Environment

## 600W High Efficiency and Fanless

- Universal AC input 90~305VAC
- Built-in active PFC function
- No load power consumption <0.5W at remote OFF
- **High efficiency up to 96%**
- Fanless design, cooling by free air convection
- -40~+70°C wide operating range
- Withstand 5G vibration test
- Built-in constant current limiting circuit
- Aluminum case and filling with heat-conducted glue
- Protections: Short circuit / Over current / Over voltage / Over temp.
- **Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, or outdoor environment**
- **5 years warranty**

 UL / CUL / TUV / CB / CE pending



AC input voltage range ..... 90~305VAC; 127~431VDC  
 AC inrush current ..... Cold start, 70A at 230VAC  
 DC adjustment range ..... -15%~+5% rated output voltage  
 Current adjustment range ..... 50%~100% rated output current adjustable by internal potentiometer  
 Over current protection ..... 95%~108% constant current limiting, auto-recovery  
 Over voltage protection..... 110%~140% rated output voltage  
 Setup, rise, hold up time ..... 500ms, 80ms, 15ms at full load and 230VAC  
 Withstand voltage ..... I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC  
 Working temperature ..... -40~+70°C(refer to output derating curve)  
 Safety standards ..... Design refer to UL60950-1, TUV EN60950-1  
 EMC standards ..... Design refer to EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11  
 Connection ..... 3+7P/11mm pitch terminal block with cover

Model No.	Output	Tol.	R&N	Effi.
HEP-600-12	12V, 0~40A	±3.0%	150mV	91.0%
HEP-600-15	15V, 0~36A	±2.0%	150mV	92.5%
HEP-600-20	20V, 0~28A	±1.5%	150mV	93.5%
HEP-600-24	24V, 0~25A	±1.0%	150mV	94.0%
HEP-600-30	30V, 0~20A	±1.0%	200mV	94.0%
HEP-600-36	36V, 0~16.7A	±1.0%	250mV	94.5%
HEP-600-42	42V, 0~14.3A	±1.0%	250mV	95.0%
HEP-600-48	48V, 0~12.5A	±1.0%	250mV	95.0%
HEP-600-54	54V, 0~11.2A	±1.0%	350mV	96.0%



**To satisfy customers is our goal —**

- High Quality
- Low Cost
- Prompt Delivery
- Best Service

# DIN Series



## 40~60W Output Current Programmable

- Universal AC input / Full range
- Io can be trimmed 10~100% by 1~10Vdc, PWM signal or resistance
- Installed on DIN rail TS35 / 7.5 or 15
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- Suitable for machine vision inspection system and plant cultivation application
- 3 years warranty

UL / CUL / TUV / CB / CE pending



AC input voltage range ..... 90~264VAC; 127~370VAC  
 AC inrush current ..... Cold start, 60A at 230VAC  
 DC adjustment range ..... 12V: 12~15V, 24V: 24~30V  
 Current adjustment range ..... 10%~100% rated output current adjustable by 1~10Vdc, PWM signal or resistance  
 Overload protection ..... 95%~108% rated output power, constant current limiting, auto-recovery  
 Over voltage protection..... 120%~155% rated output power, shut down o/p voltage, re-power on to recover  
 Withstand voltage ..... I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC  
 Working temperature ..... -30~+70°C (refer to output derating curve)  
 Safety standards ..... Design refer to UL60950-1, TUV EN60950-1  
 EMC standards ..... Design refer to EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3  
 Connection ..... I/P: 3 poles, O/P: 6 poles screw DIN terminal

### ♦ DRA-40 Series

Model No.	Output	Tol.	R&N	Effi.
DRA-40-12	12V, 0~3.34A	±1.0%	120mV	85%
DRA-40-24	24V, 0~1.7A	±1.0%	150mV	87%

### ♦ DRA-60 Series

Model No.	Output	Tol.	R&N	Effi.
DRA-60-12	12V, 0~5A	±1.0%	120mV	85%
DRA-60-24	24V, 0~2.5A	±1.0%	150mV	87%



**Products —**

- One Stop Shopping
- Total Solution



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### Features

- Universal AC input / Full range
- Installed on DIN rail TS35 / 7.5 or 15
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.75W (<1W for MDR-100)
- LED indicator for power on
- Built-in active PFC and over temp. protection (MDR-100)
- DC OK signal output (MDR-10/20)
- DC OK relay contact (MDR-40/60/100)
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty

### General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

Model No.	MDR-10	MDR-20	MDR-40	MDR-60	MDR-100
AC input voltage range	85~264VAC; 120~370VDC				
AC inrush current	Cold start, 35A at 115VAC, 70A at 230VAC	Cold start, 20A at 115VAC, 40A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	Fixed	±10% rated output voltage	0~+20% rated output voltage		
Overload protection	>105% hiccup mode, auto-recovery	105%~160% constant current limiting, auto-recovery	105%~150% constant current limiting, auto-recovery		
Over voltage protection	115%~135% rated output voltage		125%~150% rated output voltage		
Setup, rise, hold up time	500ms, 30ms, 120ms	500ms, 30ms, 50ms			3000ms, 50ms, 50ms
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, 1minute				
Working temperature	-20~+70°C (refer to output derating curve)				-10~+60°C
DC OK signal	Open collector	Open collector	Relay contact		
Safety standards	UL508, TUV EN60950-1, UL60950-1(MDR-40/60) approved				
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level (MDR-40/60/100)				
Connection	I/P: 3 poles, O/P: 3 poles screw DIN terminal		IP: 3 poles, O/P: 6 poles screw DIN terminal		
Dimension (WxHxD)(mm)	22.5x90x100		40x90x100		55x90x100
Packing	72pcs / 13.2kg	72pcs / 14.7kg	42pcs / 13.6kg	42pcs / 14.8kg	30pcs / 13.6kg

### MDR-10 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-10-5	5V, 0~2.0A	±5%	80mV	77%
MDR-10-12	12V, 0~0.84A	±3%	120mV	81%
MDR-10-15	15V, 0~0.67A	±3%	120mV	81%
MDR-10-24	24V, 0~0.42A	±2%	150mV	84%

### MDR-20 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-20-5	5V, 0~3.0A	±2%	80mV	76%
MDR-20-12	12V, 0~1.67A	±1%	120mV	80%
MDR-20-15	15V, 0~1.34A	±1%	120mV	81%
MDR-20-24	24V, 0~1.00A	±1%	150mV	84%

### MDR-40 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-40-5	5V, 0~6.00A	±2%	80mV	78%
MDR-40-12	12V, 0~3.33A	±1%	120mV	86%
MDR-40-24	24V, 0~1.70A	±1%	150mV	88%
MDR-40-48	48V, 0~0.83A	±1%	200mV	88%

### MDR-60 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-60-5	5V, 0~10.0A	±2%	80mV	78%
MDR-60-12	12V, 0~5.00A	±1%	120mV	86%
MDR-60-24	24V, 0~2.50A	±1%	150mV	88%
MDR-60-48	48V, 0~1.25A	±1%	200mV	87%

### MDR-100 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-100-12	12V, 0~7.5A	±1%	120mV	85%
MDR-100-24	24V, 0~4.0A	±1%	150mV	86%
MDR-100-48	48V, 0~2.0A	±1%	200mV	88%



#### Energy Saving —

We care about energy saving. This logo represents that this model has "low no load power consumption"!



#### To satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service





### ■ Features

- Isolation Class II
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Over temperature protection (DR-100)
- No load power consumption<1W (DR-100)
- No load power consumption<0.5W (DR-15)
- Installed on DIN rail TS35 / 7.5 or 15
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty
- Suitable for building automation and control of household appliance

### ■ General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)



Model No.		DR-15 	DR-30	DR-60	DR-100 	
AC input voltage range		85~264VAC; 120~370VDC			88~264VAC; 124~370VDC	
AC inrush current (max.)		Cold start, 65A at 230VAC	Cold start, 30A at 230VAC	Cold start, 36A at 230VAC	Cold start, 45A at 230VAC	
DC adjustment range		±10% rated output voltage				12V: 12~15V, 15V: 15~18V, 24V: 24~29V
Overload protection	Range	105%~160%				105%~135%
	Type	constant current limiting, auto-recovery				
Over voltage protection	Range	115%~135% rated output voltage				125%~155% rated output voltage
	Type	Shut off, clamp by zener diode	Shut down, re-power on to recover			
Withstand voltage		I/P-O/P: 3kVAC				
Working temperature		-20~+60°C (refer to output load derating curve)				
Vibration		10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes				
Safety standards		UL60950-1, TUV60950-1 approved				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, EN61204-3				
Connection		I/P and O/P: 2 poles screw DIN terminal	I/P: 2 poles, O/P: 4 poles screw DIN terminal			
Dimension (WxHxD)(mm)		25x93x56	78x93x56	78x93x56	100x93x56	
Case No.		985A	918B	918B	970A	
Packing		140pcs / 15.0kg	48pcs / 14.0kg	48pcs / 15.4kg	36pcs / 13.6kg	

### ■ 15W DR-15

Model No.	Output	Tol.	R&N	Effi.
DR-15-5	5V, 0~2.40A	±2%	80mV	77.0%
DR-15-12	12V, 0~1.25A	±1%	120mV	84.0%
DR-15-15	15V, 0~1.00A	±1%	120mV	83.5%
DR-15-24	24V, 0~0.63A	±1%	150mV	85.0%

### ■ 30W DR-30

Model No.	Output	Tol.	R&N	Effi.
DR-30-5	5V, 0~3.0A	±2%	80mV	74%
DR-30-12	12V, 0~2.0A	±1%	120mV	81%
DR-30-15	15V, 0~2.0A	±1%	120mV	82%
DR-30-24	24V, 0~1.5A	±1%	150mV	83%

### ■ 60W DR-60

Model No.	Output	Tol.	R&N	Effi.
DR-60-5	5V, 0~6.5A	±2%	80mV	76%
DR-60-12	12V, 0~4.5A	±1%	120mV	82%
DR-60-15	15V, 0~4.0A	±1%	120mV	83%
DR-60-24	24V, 0~2.5A	±1%	150mV	84%

### ■ 100W DR-100

Model No.	Output	Tol.	R&N	Effi.
DR-100-12	12V, 0~7.5A	±2%	120mV	87%
DR-100-15	15V, 0~6.5A	±1%	120mV	87%
DR-100-24	24V, 0~4.2A	±1%	150mV	89%



We provide specification, drawing, test report and more information, please visit our website —

<http://www.meanwell.com>



### Energy Saving —

We care about energy saving. This logo represents that this model has "low no load power consumption"!



### Features

- Universal AC input / Full range (DR-45/75, DRP-240)  
AC input selectable by switch (DR-120, DRP-480S)  
AC input 180~264VAC only (DRP-480)
- Built-in active PFC function (DRP-240)
- Built-in passive PFC function compliance to EN61000-3-2 (480W models)
- Protections: Short circuit / Overload /  
Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

### General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

Model No.		DR-45	DR-75	DR-120	DRP-240	DRP-480	DRP-480S
AC input voltage range		85~264VAC(DR-45/75, DRP-240): 90~132/180~264VAC selectable by switch (DR-120, DRP-480S); 180~264VAC only (DRP-480)					
AC inrush current (230VAC)		56A	40A	40A	45A	40A	45A
DC adjustment range		±10%	12V: 12~14V, 24V: 24~28V, 48V: 48~53V				
Overload protection		105%~150% constant current limiting, auto-recovery					
Over voltage protection	Range	115%~142% rated output voltage			30~36V for 24V model, 54~60V for 48V model		
	Type	Shut off, AC recycle to re-start					
Over temp. protection		Shut down output voltage, recovers automatically after temperature goes down					
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute					
Working temperature		-10~+50°C	-10~+60°C		-10~+70°C	-20~+70°C	
Safety standards		UL508, TUV EN60950-1 approved (UL60950-1 also for DR-120, DRP-240, DRP-480, DRP-480S)					
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level					
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal					
Dimension (WxHxD)(mm)		78x93x67	55.5x125.2x100	65.5x125.2x100	125.5x125.2x100	227x125.2x100	
Case No.		918A	923	921A	922A	930	
Packing		48pcs / 17.5kg	20pcs / 13.0kg	20pcs / 16.5kg	12pcs / 15.5kg	6pcs / 15.0kg	6pcs / 16.6kg

### DR-45 Series



Model No.	Output	Tol.	R&N	Effi.
DR-4505	5V, 0~5.0A	±2%	100mV	72%
DR-4512	12V, 0~3.5A	±1%	200mV	77%
DR-4515	15V, 0~2.8A	±1%	240mV	77%
DR-4524	24V, 0~2.0A	±1%	480mV	80%

### DR-75 Series



Model No.	Output	Tol.	R&N	Effi.
DR-75-12	12V, 0~6.3A	±2%	100mV	76%
DR-75-24	24V, 0~3.2A	±1%	150mV	80%
DR-75-48	48V, 0~1.6A	±1%	240mV	81%

### DR-120 Series



Model No.	Output	Tol.	R&N	Effi.
DR-120-12	12V, 0~10A	±2%	80mV	80%
DR-120-24	24V, 0~5.0A	±1%	80mV	84%
DR-120-48	48V, 0~2.5A	±1%	100mV	85%

### DRP-240 Series



Model No.	Output	Tol.	R&N	Effi.
DRP-240-24	24V, 0~10A	±1%	80mV	84%
DRP-240-48	48V, 0~5.0A	±1%	150mV	85%

### DRP-480 Series



Model No.	Output	Tol.	R&N	Effi.
DRP-480-24	24V, 0~20A	±1%	120mV	89%
DRP-480-48	48V, 0~10A	±1%	120mV	89%

### DRP-480S Series



Model No.	Output	Tol.	R&N	Effi.
DRP-480S-24	24V, 0~20A	±1%	120mV	89%
DRP-480S-48	48V, 0~10A	±1%	120mV	89%



### Customer Satisfaction

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.



### ■ Features

- Input 340~550VAC, 3-phase  
(two phase for DRH-120)
- Protections: Short circuit / Overload /  
Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- Can be installed on DIN rail TS35 / 7.5 or 15
- UL508 (industrial control equipment) listed  
(240~960W)
- EN61000-6-2 industrial immunity level
- Optional parallel function (1+1) (960W only)
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

### ■ General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

Model No.		DRH-120	DRT-240	DRT-480	DRT-960
AC input voltage range		340~550VAC, two phase	340~550VAC, 3-phase (two phase operation possible)		
AC inrush current (max.)		Cold start, 50A at 400VAC			
DC adjustment range		24V: 24~28V, 48V: 48~55V			
Overload protection	Range	105%~160%	105%~150%		105%~125%
	Type	Constant current limiting, auto-recovery			Constant current limiting, delay shut off after 3 sec.
Over voltage protection	Range	24V: 30~36V, 48V: 59~66V			
	Type	Shut off, AC recycle to re-start			
Over temperature protection		Shut down output voltage, recovers automatically after temperature goes down			
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature		-20~+60°C	-20~+70°C		-20~+60°C
Safety standards		UL60950-1 approved	UL508, UL60950-1, TUV EN60950-1 approved		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level			
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles	I/P: 4 poles, O/P: 4 poles		I/P: 4 poles, O/P: 6 poles
Dimension (WxHxD)(mm)		65.5x125.2x100	125.5x125.2x100	227x125.2x100	276x125.2x100
Case No.		921A	922A	930A	934
Packing		20pcs / 16.0kg	12pcs / 16.6kg	6pcs / 16.0kg	4pcs / 14.2kg

### ■ DRH-120 (Two Phase)



Model No.	Output	Tol.	R&N	Effi.
DRH-120-24	24V, 0~5.0A	±1%	80mV	85%
DRH-120-48	48V, 0~2.5A	±1%	80mV	86%

### ■ DRT-480 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-480-24	24V, 0~20A	±1%	80mV	89%
DRT-480-48	48V, 0~10A	±1%	80mV	90%

### ■ DRT-240 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-240-24	24V, 0~10A	±1%	80mV	89%
DRT-240-48	48V, 0~5.0A	±1%	80mV	89%

### ■ DRT-960 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-960-24	24V, 0~40A	±1%	80mV	91%
DRT-960-48	48V, 0~20A	±1%	80mV	92%



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<http://www.meanwell.com>



#### 48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m<sup>2</sup> warehouse. We can arrange prompt delivery within 48hrs.



### Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- Low cost
- 3 years warranty

### General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

UL / CUL / TUV / CB / CE pending

Model No.		EDR-75	EDR-120	NDR-75	NDR-120
AC input voltage range		90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 35A at 230VAC			
DC adjustment range		12V: 12~14V, 24V: 24~28V, 48V: 48~55V			
Overload protection	Range	105%~130%			
	Type	Constant current limiting, auto-recovery			
Over voltage protection	Range	14V: 14~17V, 24V: 29~33V, 48V: 56~65V			
	Type	Shut down o/p voltage, re-power on to recover			
Over temperature protection		Shut down o/p voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, O/P-DC OK: 0.5kVAC			
Working temperature		-20~+60°C (refer to output derating curve)		-20~+70°C (refer to output derating curve)	
Safety standards		Design refer to UL508, TUV EN60950-1			
EMC standards		Design refer to EN55022 classA, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2)		Design refer to EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2), EN61204-3	
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles			
Dimension (WxHxD)(mm)		32x 125.2x 102	40x 125.2x 113.5	32x 125.2x 102	40x 125.2x 113.5
Case No.		221B	992D	221B	992D
Packing		28pcs / 15.3kg	20pcs / 12.4kg	28pcs / 15.3kg	20pcs / 12.4kg

### 75W EDR-75

Model No.	Output	Tol.	R&N	Effi.
EDR-75-12	12V, 0~6.3A	±2.0%	100mV	82%
EDR-75-24	24V, 0~3.2A	±1.0%	150mV	84%
EDR-75-48	48V, 0~1.6A	±1.0%	240mV	85%

### 75W NDR-75

Model No.	Output	Tol.	R&N	Effi.
NDR-75-12	12V, 0~6.3A	±2.0%	100mV	84%
NDR-75-24	24V, 0~3.2A	±1.0%	150mV	86%
NDR-75-48	48V, 0~1.6A	±1.0%	240mV	87%

### 120W EDR-120

Model No.	Output	Tol.	R&N	Effi.
EDR-120-12	12V, 0~10A	±2.0%	100mV	82%
EDR-120-24	24V, 0~5A	±1.0%	100mV	84%
EDR-120-48	48V, 0~2.5A	±1.0%	120mV	85%

### 120W NDR-120

Model No.	Output	Tol.	R&N	Effi.
NDR-120-12	12V, 0~10A	±2.0%	100mV	84%
NDR-120-24	24V, 0~5A	±1.0%	150mV	86%
NDR-120-48	48V, 0~2.5A	±1.0%	240mV	87%



#### Products —

- One Stop Shopping
- Total Solution



#### To satisfy customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service



#### Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.



#### Products —

- One Stop Shopping
- Total Solution



### Features

- High efficiency up to 94%
- Universal AC input / Full range (SDR-75/120/240/480)  
AC input 180~264VAC only (SDR-960)
- Built-in active PFC function (SDR-120/240/480/960)
- Protections: Short circuit / Overload /  
Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact (except for SDR-75)
- 150% peak load capability (SDR-75/120/240/480)  
130% peak load capability (SDR-960)
- **Current sharing up to 3840W (7+1) for SDR-480P**  
**Current sharing up to 3840W (3+1) for SDR-960**
- Comply with GL (SDR-120/240/480)
- Comply with SEMI F47 (SDR-75/120/240/480)
- 3 years warranty

### General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

Model No.		SDR-75	SDR-120	SDR-240	SDR-480□	SDR-960
AC input voltage range		88~264VAC; 124~370VDC			90~264VAC; 127~370VDC	180~264VAC; 254~370VDC
AC inrush current (max.)		Cold start, 50A at 230VAC	Cold start, 70A at 230VAC	Cold start, 65A at 230VAC	Cold start, 80A at 230VAC	Cold start, 50A at 230VAC
DC adjustment range		12V: 12~14V (only for SDR-75/120), 24V: 24~28V, 48V: 48~55V				
Overload protection		Normally works within 110%~150% rated output power for 3 seconds and then shut down output voltage with auto-recovery (re-power on to recover for SDR-75)				Normally works within 105%~130% rated output power for 3 seconds and then shut down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed
		>150% rated power or short circuit, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds				Constant current limiting within 130%~150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover
Over voltage protection	Range	14~17V for 12V model(SDR-75/120), 29~33V for 24V model, 56~65V for 48V model				
	Type	Shut down o/p voltage, re-power on to recover			Shut down o/p voltage with auto-recovery, or re-power on to recover	
Over temperature protection		Re-power on to recover	Recovers automatically after temperature goes down			
Withstand voltage		I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC, O/P-DC OK:0.5kVAC (except for SDR-75)				
Working temperature		-30~+70℃	-25~+70℃ (refer to output derating curve)			-30~+70℃
Safety standards		UL508, TUV EN60950-1, GL (SDR-120/240/480) approved				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3; SEMI (SDR-75/120/240/480), GL (SDR-120/240/480)				
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal		I/P: 3 poles, O/P: 6 poles screw DIN terminal	I/P: 3 poles, O/P: 8 poles screw DIN terminal	I/P:3 poles, O/P: 6 poles screw DIN terminal
Dimension (WxHxD)(mm)		32x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5	110x125.2x150

### SDR-75 Series

NEW

Model No.	Output	Tol.	R&N	Effi.
SDR-75-12	12V, 0~6.3A	±1.0%	100mV	88.5%
SDR-75-24	24V, 0~3.2A	±1.0%	100mV	89.0%
SDR-75-48	48V, 0~1.6A	±1.0%	120mV	90.0%

### SDR-120 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-120-12	12V, 0~10A	±1.0%	100mV	89.0%
SDR-120-24	24V, 0~ 5A	±1.0%	100mV	91.0%
SDR-120-48	48V, 0~2.5A	±1.0%	120mV	90.5%

### SDR-240 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-240-24	24V, 0~10A	±1.0%	100mV	94%
SDR-240-48	48V, 0~5A	±1.0%	120mV	94%

### SDR-480 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-480□-24	24V, 0~20A	±1.2%	100mV	94%
SDR-480□-48	48V, 0~10A	±1.0%	120mV	94%

□ =blank, P ; Blank: basic function, P: with parallel function

### SDR-960 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-960-24	24V, 0~40A	±1.0%	180mV	94%
SDR-960-48	48V, 0~20A	±1.0%	250mV	94%



WDR-120

WDR-240

WDR-480

### Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC (WDR-240/480)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

### General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

Model No.		WDR-120	WDR-240	WDR-480
AC input voltage range		180~550VAC(single and two phase); 254~780VDC		
AC input current		0.55A / 400VAC, 1.2A / 230VAC	1A / 400VAC, 2A / 230VAC	1.6A / 400VAC, 4A / 230VAC
AC inrush current (max.)		Cold start, 50A at 400VAC		
DC adjustment range		12V: 12~15V, 24V: 24~29V, 48V: 48~58V	24V: 24~28V, 48V: 48~55V	
Overload protection		105%~130% rated output power, constant current limiting, auto-recovery	105%~130% rated output power, constant current limiting, unit will shut down after 3 sec.; auto-recovery after 1 minute if the fault condiction is removed.	
Over voltage protection	Range	16~18V for 12V model (only for WDR-120), 29~33V for 24V model, 56~65V for 48V model		
	Type	Shut down o/p voltage, auto-recovery	Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed	
Setup, rise, hold up time		2000ms, 70ms, 10ms at full load and 230VAC; 2000ms, 70ms, 50ms at full load and 400VAC	1500ms, 150ms, 18ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC	2000ms, 150ms, 16ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC
Over temp. protection		Shut down output voltage, recovers automatically after temperature goes down		
Withstand voltage		I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC, O/P-DC OK:0.5kVAC, 1 minute		
Isolation resistance		100MΩ(min.)@500VDC		
Working temperature		-25~+70°C (refer to output derating curve)	-30~+70°C (refer to output derating curve)	
DC OK signal		Relay Contact		
Leakage current		<3.5mA at 530VAC		
Vibration		10~500Hz, 2G 10 minutes / 1 cycle, period of 60 minutes each along X, Y, Z axes		
Safety standards		UL508 approved ; IEC60950-1 CB approved by SIQ ; Design refer to GL		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level		
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal	
Dimension (WxHxD)(mm)		40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5
Packing		20pcs / 14kg	12pcs / 13.7kg	8pcs / 14.6kg

### WDR-120 Series



Model No.	Output	Tol.	R&N	Effi.
WDR-120-12	12V, 0~10A	±1.5%	120mV	89.5%
WDR-120-24	24V, 0~5A	±1.0%	120mV	91%
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92%

### WDR-240 Series



Model No.	Output	Tol.	R&N	Effi.
WDR-240-24	24V, 0~10A	±1.0%	150mV	91%
WDR-240-48	48V, 0~5A	±1.0%	150mV	91%

### WDR-480 Series



Model No.	Output	Tol.	R&N	Effi.
WDR-480-24	24V, 0~20A	±1.0%	100mV	92%
WDR-480-48	48V, 0~10A	±1.0%	150mV	93%



### Customer Satisfaction —

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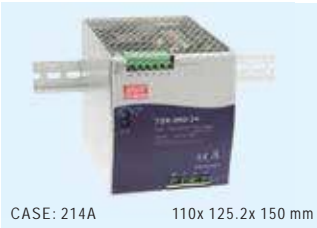


### To satisfy our customers is our goal —

- High Quality
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### 960W High Input Voltage

Parallel



- Input 340~550VAC, 3-phase
- Width only 110mm
- Built-in active PFC function
- High efficiency up to 94.5%
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- Installed on DIN rail TS-35 / 7.5 or 15
- EN61000-6-2(EN50082-2) industrial immunity level
- Current sharing up to 3840W (3+1)
- Built-in DC OK relay contact
- 3 years warranty

CASE: 214A 110x 125.2x 150 mm

AC input voltage range ..... 340~550VAC, 3-phase ( two phase operation possible)  
 AC input current (Typ.)..... 2A / 400VAC, 1.4A / 500VAC  
 AC inrush current ..... Cold start, 60A at 400VAC  
 DC adjustment range ..... 24V: 24~28V, 48V: 48~55V  
 Overload protection ..... 105%~130% rated output power, constant current limiting, unit will shut down after 3 sec., re-power on to recover  
 Over voltage protection ..... 29~33V (24V model), 56~65V (48V model), shut down o/p voltage, re-power on to recover  
 Over temperature..... Shut down o/p voltage, recovers automatically after temperature goes down  
 Withstand voltage..... I/P-O/P:3kVAC I/P-FG:2kVAC O/P-FG:0.5kVAC  
 O/P-DC OK: 0.5kVAC  
 Working temperature ..... -30~+70°C (refer to output derating curve)  
 Safety standards..... UL508 approved; IEC60950-1 CB approved by SIQ  
 EMC standards ..... EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level  
 Connection ..... I/P: 3 poles, O/P: 6 poles screw DIN terminal

Model No.	Output	Tol.	R&N	Effi.
TDR-960-24	24V, 0~40A	±1.0%	180mV	94.0%
TDR-960-48	48V, 0~20A	±1.0%	250mV	94.5%

### 20A Power Supply Redundant Module



- Suitable for redundant operation of 24V system
- Installed on DIN rail TS35 / 7.5 or 15
- Relay contact signal output and LED indicator for input failure alarm
- Cooling by free air convection
- 3 years warranty

CASE: 923C 55.5x 125.2x 100 mm

DC input voltage range .....21~28V, 20A max. x 2 channels  
 Reverse voltage ..... 30V  
 DC output current ..... 20A max.  
 DC output voltage drop ..... 0.5V max.  
 Input voltage alarm ..... When input is > 20V(±5%) and <30V(±5%), relay contacts  
 Relay contact rating ..... 30VDC, 1A  
 Working temperature ..... -40~+70°C  
 EMC standards ..... EN55022 class B, EN61000-4-2,3,4,5,6,8,11  
 Connection ..... I/P: 4 poles, O/P: 2 poles screw DIN terminal, Single output: 4 poles

Model No.	Output	Reverse Voltage	Current
DR-RDN20	24V, 20A	30V max.	20A max.

#### ► Feature Description

**DR-RDN-20** is a 20A redundancy (decoupling) module for the 24VDC power system. Containing 2 sets of 20A Or-ing diodes with wonderful heat dissipation deployment, DR-RDN20 offers a safe option of 1+1 redundant set-up. Not only perfectly decouple power sources from each other as well as from the load, DR-RDN-20 also provides users monitoring signals for both input channels through the built-in relays.

**DR-UPS40** is a 40A max. DC UPS (battery control) module for the 24VDC power system. Accompany with external batteries, it can back-up up to 40A of current to critical loads for certain period of time depending on the capacity of batteries. With complete monitoring signals / LED indicators for DC BUS OK, Battery Fail, Battery Discharge, and the repeated Battery Test function to check the situation of external batteries, users can customize their own DC UPS system to back up critical loads and capture the status of the whole system easily.

### 40A DC UPS Module



- Battery controller for DIN rail UPS system
- Parallel connected to DC BUS
- Suitable for 24V system up to 40A
- Installed on DIN Rail TS35 / 7.5 or 15
- Built-in battery test function
- Battery polarity protection
- Relay contact signal output and LED indicator for DC BUS OK, Battery Fail, and Battery Discharge
- Cooling by free air convection
- 3 years warranty

CASE: 923D 55.5x 125.2x 100 mm

DC input / DC bus ..... 24~29V, 40A max.  
 Battery input voltage ..... 21~29V  
 Battery input Current ..... 0~40A  
 Charge current (typ.) ..... 2A  
 External battery (typ.) ..... 24V, 4AH / 7AH / 12AH  
 DC bus ok ..... Relay status : Short when DC voltage between 21~29V(±3%), relay contacts  
 LED(Green) : DC bus OK : light;  
 DC bus fail : dark  
 Battery fail ..... Relay status : Short when battery failure is observed through the battery test function, relay contacts  
 LED(Red) : Battery over-discharge warning or battery broken: light;  
 Battery OK: dark  
 Battery discharge ..... Relay status : Short when battery in discharge condition, relay contacts  
 LED(Yellow) : Battery discharging: light;  
 Battery is not discharging or discharging current <2A: dark

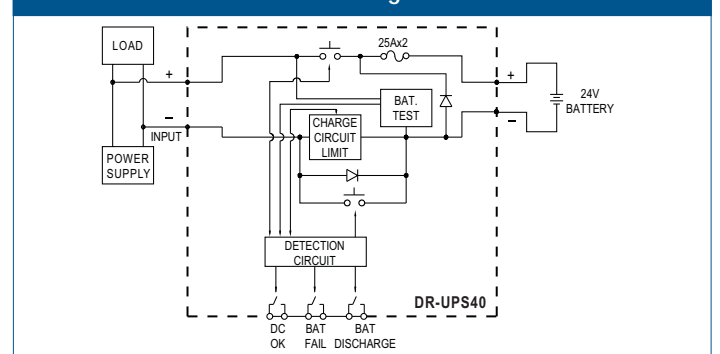
Working temperature ..... -20~+70°C

EMC standards ..... EN55022 class B, EN61000-4-2,3,4,5,6,8,11

Connection ..... I/P: 2 poles, O/P: 2 poles screw DIN terminal, Single output: 6 poles

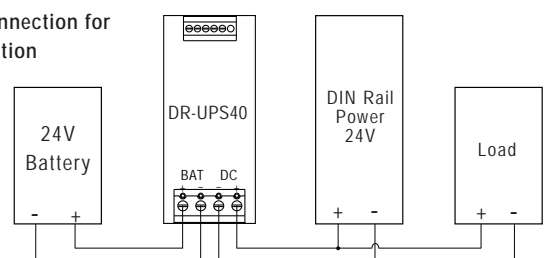
Model No.	DC BUS Voltage	DC BUS Current
DR-UPS40	24~29V	40A max.

#### Block Diagram



#### Example of Application

Back up connection for AC interruption





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Product	Code	Reference	Product link
Input: 180-264 AC / 250-370 DC, Output: 1, V1: 24, A1: 20	DRP48024	DRP-480-24	<a href="#">Buy on EAN</a>
Input: 180-264 AC / 250-370 DC, Output: 1, V1: 48, A1: 10	DRP48048	DRP-480-48	<a href="#">Buy on EAN</a>
Input: 90-132 AC / 250-370 DC, Output: 1, V1: 24, A1: 20	DRP480S24	DRP-480S-24	<a href="#">Buy on EAN</a>
Input: 90-132 AC / 250-370 DC, Output: 1, V1: 48, A1: 10	DRP480S48	DRP-480S-48	<a href="#">Buy on EAN</a>
Input: 21-28 DC, Output: 1, V1: 24, A1: 20	DRRDN20	DR-RDN20	<a href="#">Buy on EAN</a>
Input: 24-29 DC, Output: 1, V1: 24, A1: 40	DRUPS40	DR-UPS40	<a href="#">Buy on EAN</a>
Input: 180-264 AC / 254-370 DC, Output: 1, V1: 24, A1: 40	SDR96024	SDR-960-24	<a href="#">Buy on EAN</a>
Input: 180-264 AC / 254-370 DC, Output: 1, V1: 48, A1: 20	SDR96048	SDR-960-48	<a href="#">Buy on EAN</a>
Input: 340-550 AC / 480-780 DC, Output: 1, V1: 24, A1: 40	TDR96024	TDR-960-24	<a href="#">Buy on EAN</a>
Input: 340-550 AC / 480-780 DC, Output: 1, V1: 48, A1: 20	TDR96048	TDR-960-48	<a href="#">Buy on EAN</a>