

Tensione di ingresso monofase 85 ~ 264Vac 47~63Hz
 Single phase input voltage : 85 ~ 264Vac 47~63Hz

Certificazione "UL508 (industrial control equipment) approved"
 "UL508 (industrial control equipment) approved" certification

Protezione sovraccarico, sovratensione e corto circuito
 Short circuit, over load and over voltage protection

Adatto per montaggio su barra DIN TS-35/7.5 o 15
 Can be installed on DIN TS-35/7.5 or 15t

Test di burn-in svolto a pieno carico
 100% full load burn-in test

Garanzia di tre anni
 3 years warranty



UL US CBCE

CARATTERISTICHE TECNICHE - TECHNICAL FEATURES		Cod. 4248	Cod. 4247	Cod. 4227	Cod. 4229	Cod. 4234
MODEL		DR-30-12	DR-30-24	DR-60-5	DR-60-12	DR-60-24
OUTPUT	DC VOLTAGE	12V	24V	5V	12V	24V
	RATED CURRENT	2A	1.5A	6.5A	4.5A	2.5A
	CURRENT RANGE	0 ~ 2A	0 ~ 1.5A	0 ~ 6.5A	0 ~ 4.5A	0 ~ 2.5A
	RATED POWER	24W	36W	32.5W	54W	60W
	RIPPLE & NOISE (max) note 2	120mVp-p	150mVp-p	80mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	21.6 ~ 26.4V	4.75 ~ 5.5V	11.1 ~ 13.2V	21.6 ~ 26.4V
	VOLTAGE TOLERANCE note 3	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE, HOLD TIME		100ms, 30ms, 50ms / 230Vac at full load				
INPUT	VOLTAGE RANGE	85 ~ 264VAC - 120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	81%	83%	76%	83.5%	86%
	AC CURRENT	1.1A/115VAC	0.6A/230VAC	1.8A/115VAC	1A/230VAC	
	INRUSH CURRENT (max.)	cold start 30A/115Vac 40A/230VAC				
PROTECTION	OVER LOAD	105 ~ 150% rated output power Protection type: Fold back current limiting, recovers automatically after fault condition is removed. (constant current)				
	OVER VOLTAGE	13.8 ~ 16.2V	27.6 ~ 32.4V	5.75 ~ 6.75V	13.8 ~ 16.2V	27.6 ~ 32.4V
		Shut down o/p voltage, re-power on to recover.		Shut down o/p voltage, re-power on to recover.		
ENVIRONMENT	WORKING TEMPERATURE	-20 ~ +60°C (refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMID.	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes				
SAFETY EMC	SAFETY STANDARDS	UL60950-1, TUV EN60950 approved, design refer to EN50178				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100 MOhms/500VDC				
	EMI CONDUCTION & RADIATION	Compliance to EN55011, EN55022 (CISPR22) class B				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, ENV55024, EN61000-6-2 (EN50082-2) heavy industry level, criteria A					
OTHERS	DIMENSION - WEIGHT	78 x 93 x 56mm (LxWxH) - 0.27Kg		78 x 93 x 56mm (LxWxH) - 0.3Kg		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple and noise are measured at 20MHz of band width by using a 12" twisted pair-wire terminated with 0.1uF and 47uF parallel capacitors. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. the power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.					

COME ORDINARE - HOW TO ORDER

Sigla - part number	Code	Input	Output	Dimensions L x H x P (mm)
① ET/SW/115-230/12/2A/DR30	4248	85~264Vac	12Vdc / 2A	78 x 93 x 56mm (LxWxH)
② ET/SW/115-230/24/1.5A/DR30	4247	85~264Vac	24Vdc / 1.5A	78 x 93 x 56mm (LxWxH)
③ ET/SW/115-230/5/6.5A/DR60	4227	85~264Vac	5Vdc / 6.5A	78 x 93 x 56mm (LxWxH)
④ ET/SW/115-230/12/4.5A/DR60	4229	85~264Vac	12Vdc / 4.5A	78 x 93 x 56mm (LxWxH)
⑤ ET/SW/115-230/24/2.5A/DR60	4234	85~264Vac	24Vdc / 2.5A	78 x 93 x 56mm (LxWxH)

Tensione di ingresso monofase 85 ~ 264Vac 47-63Hz
Single phase input voltage : 85 ~ 264Vac 47-63Hz

Certificazione "UL508 (industrial control equipment) approved"
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Protezione sovratemperatura, sovraccarico, sovratensione e corto circuito
Short circuit, over temperature, over load and over voltage protection

Alta efficienza 89% e bassa dissipazione
High efficiency 89% and low dissipation

Adatto per montaggio su barra DIN TS-35/7.5 o 15
Can be installed on DIN TS-35/7.5 or 15t

Test di burn-in svolto a pieno carico
100% full load burn-in test

DR-75



DR-45



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES		Cod. 4032	Cod. 4033	Cod. 4045	Cod. 4046	Cod. 4047
MODEL		DR-45-12	DR-45-24	DR-75-12	DR-75-24	DR-75-48
OUTPUT	DC VOLTAGE	12V	24V	12V	24V	24V
	RATED CURRENT	3.5A	2A	6.3A	3.2A	2A
	CURRENT RANGE	0 ~ 3.5A	0 ~ 2A	0 ~ 6.3A	0 ~ 3.2A	0 ~ 2A
	RATED POWER	42W	48W	76W	76.8W	76.8W
	RIPPLE & NOISE (max) note 2	200mVp-p	480mVp-p	100mVp-p	150mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	21.6 ~ 26.4V	12 ~ 14V	24 ~ 28V	48 ~ 53V
	VOLTAGE TOLERANCE note 3	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE, HOLD TIME	800ms, 60ms, 50ms / 230Vac at full load			1000ms, 60ms, 50ms/230Vac - 1800ms, 60ms, 10ms/115Vac at full load		
INPUT	VOLTAGE RANGE	85 ~ 264VAC - 120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	77%	80%	76%	80%	81%
	AC CURRENT	1.5A/115VAC 0.75A/230VAC		2A/115VAC 1.2A/230VAC		
	INRUSH CURRENT (max.)	cold start 30A/115Vac 60A/230Vac				
LEAKAGE CURRENT	<1mA / 240VAC					
PROTECTION	OVER LOAD	105 ~ 150% rated output power Protection type: Costant current limiting, recovers automatically after fault condition is removed.				
	OVER VOLTAGE	13.8 ~ 16.2V	27.6 ~ 32.4V	15 ~ 16.5V	29 ~ 34V	58 ~ 65V
		Shut down o/p voltage, re-power on to recover.		HICCUPmode, recovers automaticallt after fault condition is removed.		
OVER TEMPERATURE	Tj 135°C typically (U1) Detect on heatsink of power switch		85±5°C (TSW1) Detect on heatsink of power transistor			
	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down.					
ENVIRONMENT	WORKING TEMPERATURE	-10 ~ +50°C (refer to output load derating curve)		-10 ~ +60°C (refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMID.	-20 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes				
SAFETY EMC	SAFETY STANDARDS	UL508, TUV EN60950 approved				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100 MOhms/500VDC				
	EMI CONDUCTION & RADIATION	Compliance to EN55011, EN55022 (CISPR22) class B				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, ENV55024, EN61000-6-2 (EN50082-2) heavy industry level, criteria A					
OTHERS	DIMENSION - WEIGHT	93 x 78 x 67mm (LxWxH) - 0.31Kg		55.5 x 125.2 x 100mm (LxWxH) - 0.6Kg		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple and noise are measured at 20MHz of band width by using a 12" twisted pair-wire terminated with 0.1uF and 47uF parallel capacitors.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. the power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p>					

COME ORDINARE - HOW TO ORDER

	Sigla - part number	Code	Input	Output	Dimensions L x H x P (mm)
①	ET/115-230/12/3.5A/DR45	4032	85~264Vac	12Vdc / 3.5A	93 x 78 x 67mm (LxWxH)
②	ET/115-230/24/2A/DR45	4033	85~264Vac	24Vdc / 2A	93 x 78 x 67mm (LxWxH)
③	ET/115-230/12/6.3A/DR75	4045	85~264Vac	12Vdc / 6.3A	55.5 x 125.2 x 100mm (LxWxH)
④	ET/115-230/24/3.2A/DR75	4046	85~264Vac	24Vdc / 3.2A	55.5 x 125.2 x 100mm (LxWxH)
⑤	ET/115-230/48/1.6A/DR75	4047	85~264Vac	48Vdc / 1.6A	55.5 x 125.2 x 100mm (LxWxH)

Versioni monofase: 85 ~ 264Vac 47-63Hz
Single phase versions : 85 ~ 264Vac 47-63Hz

Certificazione "UL508 (industrial control equipment) approved"
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Protezione sovratemperatura, sovraccarico, sovratensione e corto circuito
Short circuit, over temperature, over load and over voltage protection

Alta efficienza 89% e bassa dissipazione
High efficiency 89% and low dissipation

Adatto per montaggio su barra DIN TS-35/7.5 o 15
Can be installed on DIN TS-35/7.5 or 15t

Test di burn-in svolto a pieno carico
100% full load burn-in test

ET-DR120



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES		Cod. 4064	Cod. 4065	Cod. 4066
MODEL		DR-120-12	DR-120-24	DR-120-48
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	10A	5A	2.5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A
	RATED POWER	120W	120W	120W
	RIPPLE & NOISE (max) note 2	80mVp-p	80mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 53V
	VOLTAGE TOLERANCE note 3	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
SETUP, RISE, HOLD TIME		500ms, 70ms, 30ms/230Vac - 500ms, 70ms, 30ms/115Vac at full load		
INPUT	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC 248 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	80%	84%	85%
	AC CURRENT	3.3A/115VAC 2A/230VAC		
	INRUSH CURRENT (max.)	COLD START 50A		
	LEAKAGE CURRENT	<3.5mA / 240VAC		
PROTECTION	OVER LOAD	105 ~ 150°C rated output power Protection type: Costant current limiting, recovers automatically after fault condition is removed.		
	OVER VOLTAGE	15 ~ 16.5V	29 ~ 34V	58 ~ 65V
	Protection type: Shut down o/p voltage, re-power on to recover.			
	OVER TEMPERATURE	85±5°C (TSW1)	90±5°C (TSW1)	90±5°C (TSW1)
Shut down o/p voltage, recovers automatically after temperature goes down.				
ENVIRONMENT	WORKING TEMPERATURE	-10 ~ +60°C (refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMID.	-20 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes		
SAFETY EMC	SAFETY STANDARDS	UL508, TUV EN60950 approved		
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100 MOhms/500VDC		
	EMI CONDUCTION & RADIATION	Compliance to EN55011, EN55022 (CISPR22) class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3		
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, ENV55024, EN61000-6-2 (EN50082-2) heavy industry level, criteria A			
OTHERS	DIMENSION - WEIGHT	66.5 x 125.2 x 100mm (LxWxH) - 0.79Kg		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple and noise are measured at 20MHz of band width by using a 12" twisted pair-wire terminated with 0.1uF and 47uF parallel capacitors. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. the power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p>			

COME ORDINARE - HOW TO ORDER

Sigla - part number	Code	Input	Output	Dimensions L x H x P (mm)
① ET/SW/115-230/12/10A/DR120	4064	115 ~ 230Vac	12Vdc / 10A	66.5 x 125.2 x 100mm (LxWxH)
② ET/SW/115-230/24/5A/DR120	4065	115 ~ 230Vac	24Vdc / 5A	66.5 x 125.2 x 100mm (LxWxH)
③ ET/SW/115-230/48/2.5A/DR120	4066	115 ~ 230Vac	48Vdc / 2.5A	66.5 x 125.2 x 100mm (LxWxH)

Tensione di ingresso monofase 230Vac 47-63Hz
Single phase input voltage : 230Vac 47-63Hz

Certificazione "UL508 (industrial control equipment) approved"
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Alta efficienza 89% e bassa dissipazione
High efficiency 89% and low dissipation

Protezione sovratemperatura, sovraccarico, sovratensione e corto circuito
Short circuit, over temperature, over load and over voltage protection

Circuito interno per la limitazione della corrente
Built-in constant current limiting circuit

Isolamento galvanico ingresso / uscita / custodia
Input / output / case insulation

Adatto per montaggio su barra DIN TS-35/7.5 o 15
Can be installed on DIN TS-35/7.5 or 15t

Test di burn-in svolto a pieno carico
100% full load burn-in test



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES		Cod. 4075	Cod. 4076	Cod. 4077	Cod. 4078	Cod. 4360	Cod. 4361
MODEL		DRP-240-24	DRP-240-48	DRP-480-24	DRP-480-48	DRP-480 S-24	DRP-480 S-48
OUTPUT	DC VOLTAGE	24V	48V	24V	48V	24V	48V
	RATED CURRENT	10A	5A	20A	10A	20A	10A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 20A	0 ~ 10A	0 ~ 20A	0 ~ 10A
	RATED POWER	240W	240W	480W	480W	480W	480W
	RIPPLE & NOISE (max) note 2	80mVp-p	150mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 53V	24 ~ 28V	48 ~ 53V	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE note 3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE, HOLD TIME	800ms, 40ms, 20ms / 230Vac at full load 800ms, 40ms, 40ms / 115Vac at full load		1200ms, 40ms, 16ms / 230Vac at full load		1200ms, 40ms, 20ms / 230Vac at full load 1200ms, 40ms, 20ms / 115Vac at full load		
INPUT	VOLTAGE RANGE	85 ~ 264VAC - 120 ~ 370VDC		180 ~ 264VAC - 250 ~ 370VDC		90-132VAC/180-264VAC by switch - 254-370VDC	
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (at full load)	PF>0.95/230Vac PF>0.98/115Vac		PF>0.7/230Vac		PF>0.7/230Vac only	
	EFFICIENCY (Typ.)	84%		85%		89%	
	AC CURRENT	3.5A/115VAC 1.8A/230VAC		4A/230VAC		11A/115VAC 4A/230VAC	
	INRUSH CURRENT (max.)	cold start 30A/115Vac 50A/230Vac		cold start 50A/230Vac		cold start 30A/115Vac 50A/230Vac	
	LEAKAGE CURRENT	<3.5mA / 240VAC					
PROTECTION	OVER LOAD	105 ~ 150% rated output power Protection type: Costant current limiting, recovers automatically after fault condition is removed.					
	OVER VOLTAGE	30 ~ 36V	54 ~ 60V	30 ~ 36V	54 ~ 60V	30 ~ 36V	59 ~ 66V
	OVER TEMPERATURE	100°C ±5°C (TWS) Detect on heatsink of power switch Protection type: Shut down o/p voltage, recovers automatically after temperature goes down.					
ENVIRONMENT	WORKING TEMPERATURE	-10 ~ +70°C		-20 ~ +70°C			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMID.	-20 ~ +85°C, 10 ~ 95% RH				-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes					
SAFETY EMC	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950 approved		UL508, TUV EN60950 approved			
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100 MOhms/500VDC					
	EMI CONDUCTION & RADIATION	EN55011, EN55022, EN61204-3 class B		EN55022, class B		EN55011, EN55022 (CISPR22), EN61204-3 class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3					
OTHERS	DIMENSION	125.5 x 125.2 x 100mm (LxWxH)		227.5 x 125.2 x 100mm (LxWxH)			
	WHEIGHT	1.3Kg		2.4Kg		2.6Kg	
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple and noise are measured at 20MHz of band width by using a 12" twisted pair-wire terminated with 0.1uF and 47uF parallel capacitors. Tolerance: includes set up tolerance, line regulation and load regulation. the power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. Derating may be needed under low input voltage. Please check the derating curve for more details. 						

COME ORDINARE - HOW TO ORDER

Sigla - part number	Cod.	Ingresso - input	Uscita - output	Sigla - part number	Cod.	Ingresso - input	Uscita - output
1 ET-SW/115-230/24/10A/DRP240	4075	115-230Vac	24Vdc - 10A	ET-SW/115-230/24/20A/DRP480S	4360	115-230Vac	24Vdc - 20A
2 ET-SW/115-230/48/5A/DRP240	4076	115-230Vac	48Vdc - 5A	ET-SW/115-230/48/10A/DRP480S	4361	115-230Vac	48Vdc - 10A
3 ET-SW/180-264/24/20A/DRP480	4077	180-264Vac	24Vdc - 20A				
4 ET-SW/180-264/48/10A/DRP480	4078	180-264Vac	48Vdc - 10A				