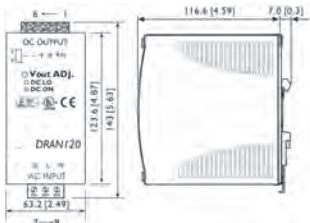


Power supply - regulated, 120 W

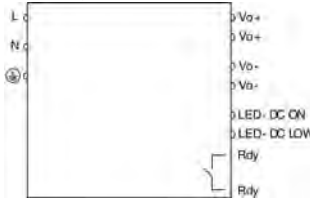
Primary switchmode power supply, PFC, Single-phase, screw terminal - pluggable
Input: Wide range input AC 90–132 V; AC 186–264 V, DC 210–370 V
Output: 12 V / 24 V / 48 V - adjustable



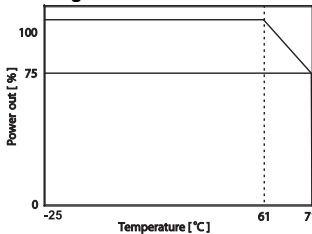
Dimensions



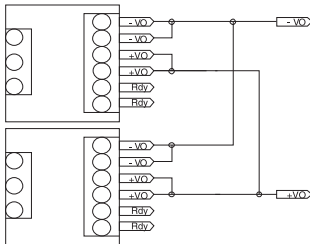
PIN assignment



Derating



Parallel mode



Description	Part-No.	Type	PU	
Screw terminal, pluggable				
Output voltage/current	DC 12 V; 10 A	722770	DRAN 120-12B	1
	DC 24 V; 5 A	722758	DRAN 120-24B	1
	DC 48 V; 2.5 A	722777	DRAN 120-48B	1
Input				
	DRAN 120-12B	DRAN 120-24B	DRAN 120-48B	
Nominal voltage	AC 115 / 230 V (auto select)			
Operation voltage range	AC 90–132 V; AC 186–264 V / DC 210–370 V			
Line frequency	47 – 63 Hz			
Rated current	U _I = AC 115 V: 1.25 A / U _I = AC 230 V: 0.63 A			
Inrush current	U _I = AC 115 V: 24 A / U _I = AC 230 V: 48 A			
Internal fuse	T3, 15 A / AC 250 V			
External fuse	Mini-circuit breaker: B 5 A			
Power Factor Correction P.F.C.	0.7			
Output				
Rated voltage output	DC 12 V	DC 24 V	DC 48 V	
Rated current output	10 A	5 A	2.5 A	
Max. output current	–			
Peak output current	–			
Voltage trim range	11.4–14.5 V	22.5–28.5 V	45/55 V	
Accuracy	±1 %			
Line regulation	±0.5 %			
Load regulation	Single ±1 %, Parallel ±5 %			
Rise time	1 s			
Temperature coefficient	±0.03 % / °C			
Ripple & Noise	50 mV			
Hold up time	V _{in} = 115 V: 25 ms / V _{in} = 230 V: 30 ms			
Status indication DC ON LED green	≥10–11.2 V	≥17.6–19.4 V	≥37–43 V	
Status indication DC LOW LED red	≤10–11.2 V	≤17.6–19.4 V	≤37–43 V	
Parallel mode	max. 3 units at 90% load current, manual switch			
Efficiency	84 %	86 %	87 %	
Low power loss	24 W	20 W	19 W	
Rated over load protection	105–125 %			
Over voltage protection	125–145 %			
Short circuit characteristics	Current limit			
General				
Switching frequency	approx. 80 kHz			
Insulation voltage input/output	AC 3.0 kV _{eff}			
Insulation voltage input / ground	AC 1.5 kV _{eff}			
Insulation voltage output / ground	–			
Insulation resistance at DC 500 V	100 MΩ			
Operation temperature range	-25 °C – 70 °C (derating)			
Derating	-2.5% / °C starting at 60 °C			
Storage temperature range	-25 °C – 85 °C			
M.T.B.F.	440000 h	450000 h	482000 h	
Relative humidity	20–90% RH			
Dimensions (w x h x d) in mm	63.5 x 142.0 x 116.0			
Cooling	Air convection			
Housing material	metal			
Field installation	rail TS 35 (EN 50022)			
Application height	– m			
Installation position	vertical			
Protection class	IP 20			
Overvoltage category	II			
Pollution degree	2			
Protection class	–			
Weight (kg/piece)	0.920			
Termination	Screw terminal: 0.2–2.0 mm ²			
Approvals	UL: UL 508 listed; cUL: UL 60950-1; TÜV: EN 60950, CE: EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 55024			
Monitoring				
DC ON Control (Rdy)	–	Normally open	–	
Switching voltage	–	DC 60 V	–	
Switching current	–	max. 300 mA	–	
Switching capacity	–	–	–	
Insulation voltage	–	DC 500 V	–	