



Spangle 1AC/24VDC/10A, 20A



Features

- 1-phase switch mode power supplies
- Wide temperature range -40 °C to 70 °C
- Slim design with metal chassis
- Output status signaling
- Boost status signaling
- High efficiency up to 94%

Technical Data

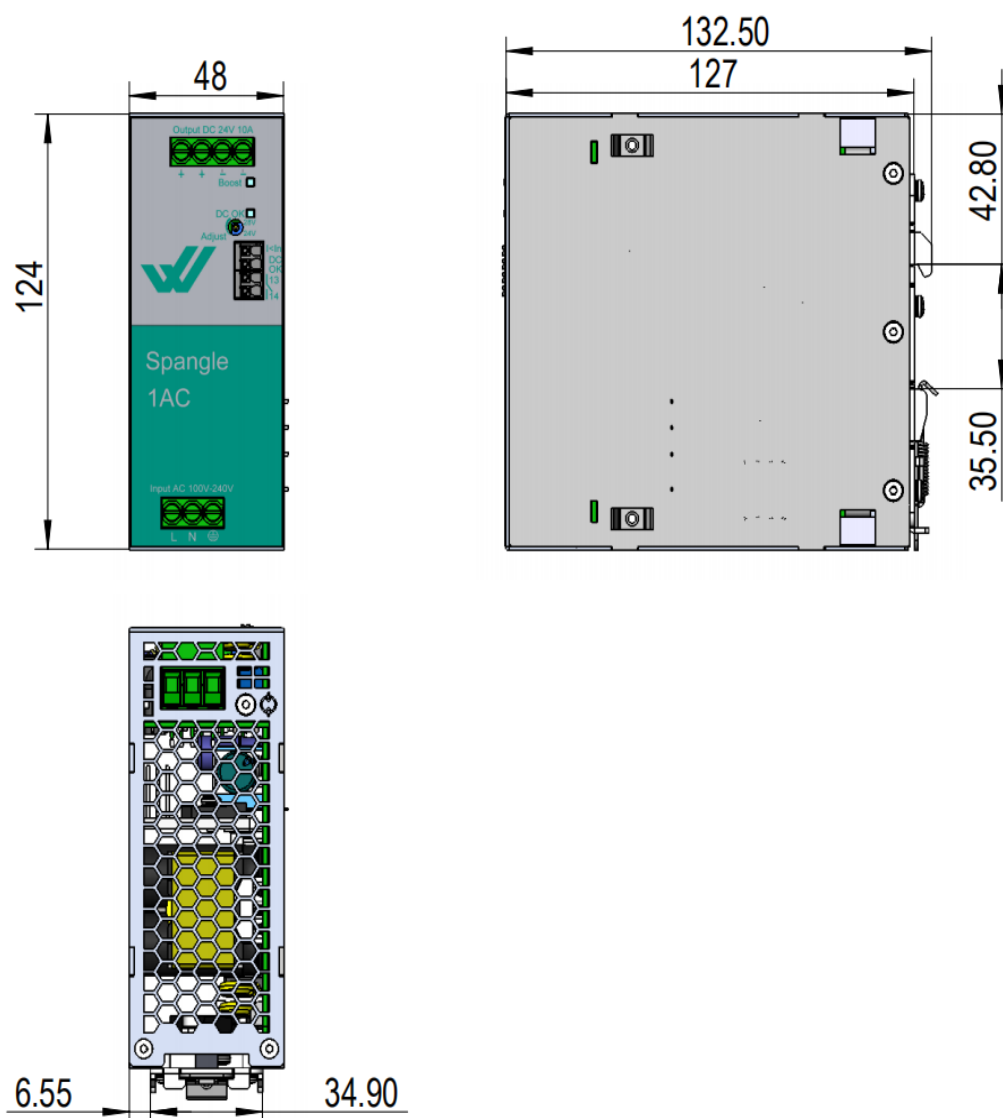
Model	WAT-0001-33/WAT-0001-43 WAT-0301-33/WAT-0301-43	WAT-0001-31/WAT-0001-41 WAT-0301-31/WAT-0301-41
Type	Spangle 1AC/24VDC/10A	Spangle 1AC/24VDC/20A
Input voltage	Rated: 100Vac-240Vac Range: 85Vac-277Vac	Rated: 100Vac-240Vac Range: 85Vac-277Vac
Input frequency	47-63Hz	47-63Hz
Input current	1.5A @ 240Vac, 3A @ 100Vac	2.5A @ 240Vac, 5.5A @ 100Vac
Recommend fuse	6.3A Character C circuit breaker	8A Character C circuit breaker
Output voltage	24-28Vdc (adjustable), >24V Constant Power	20-28.5Vdc (adjustable), >24V Constant Power
Output current	10A	20A
Output power	240W	480W
Boost output current	150% Io, 3s minimum	150% Io, 3s minimum
Ripple	<100mVpp	<100mVpp
Efficiency	>94%	>94%
Line regulation	± 0.5%	± 0.5%
Load regulation	± 1.0%	± 1.0%
Hold up time	>22ms @ 240Vac	>25ms @ 240Vac
Over current protection	Yes	Yes
Output voltage protection	Yes	Yes
Signaling	DC OK signal, LED, Power boost (For WAT-0001-33 and WAT-0301-33) DC OK signal (For WAT-0001-43 and WAT-0301-43)	DC OK signal, LED, Power boost (For WAT-0001-31 and WAT-0301-31) DC OK signal (For WAT-0001-41 and WAT-0301-41)

Operating temperature range	-40°C to +70°C (>60°C Derating 2.5%/k)	-40°C to +70°C (>60°C Derating 2.5%/k)
Power factor	0.96 typ	0.98 typ
Dimensions (D x W x H)	127 x 48x 124 mm (5.0 x 1.89 x 4.88 inch)	127 x 55x 124 mm (5.0 x 2.16 x 4.88 inch)
Approvals	CE,CB,UL61010,EN62477	CE,CB,UL61010,EN62477
MTBF(40degC)	>700,000 hrs	>700,000 hrs
Weight	0.75 kg (1.65 lb)	0.75 kg (1.65 lb)
PCB Conformal coating	For WAT-0301-33 and WAT-0301-43	For WAT-0301-31 and WAT-0301-41



Dimensional drawings

WAT-0001-33/WAT-0001-43/WAT-0301-33/WAT-0301-43



WAT-0001-31/WAT-0001-41/WAT-0301-31/WAT-0301-41

