



**PREMIUM 1AC/24DC/5A, 10A**



**Features**

- 1-phase switch mode power supplies
- Wide temperature range -25 °C to 70 °C
- Output status signaling
- Slim design with metal chassis

**Technical Data**

Model	WAT-0001-02	WAT-0001-03
Type	PREMIUM 1AC/24DC/5A	PREMIUM 1AC/24DC/10A
Input voltage	Rated: 100Vac-240Vac Range: 90Vac-264Vac	Rated: 100Vac-240Vac Range: 90Vac-264Vac
Input frequency	45-65Hz	45-65Hz
Input current	0.7A @ 240Vac, 1.5A @ 100Vac	1.6A @ 240Vac, 3.2A @ 100Vac
Standby power	<5W	<10W
Power factor	> 0.9 (100VAC)	> 0.9 (100VAC)
Inrush current	<20A	<20A
Recommend fuse	4A Character C circuit breaker	6.3A Character C circuit breaker
Efficiency (typ)	>90%	>90%
Output voltage	20-28.5Vdc (adjustable), >24V Constant Power	20-28.5Vdc (adjustable), >24V Constant Power
Output current	5A	10A
Output power	120W	240W
Boost output current	7.5A up to 40 degC permanently	15A up to 40 degC permanently
Base Ripple	<50mVp-p (Iout=5A)	<50mVp-p (Iout=10A)
Line regulation	+/-1%	+/-1%
Load regulation	+/-1%(static), +/-2%(dynamic)	+/-1%(static), +/-2%(dynamic)
Hold up time	>25ms @ 240Vac	>25ms @ 240Vac
Over current, Over voltage, Over temperature, Short circuit protection	Yes	Yes
Signaling	DC OK signal, LED, Power boost	DC OK signal, LED, Power boost
Insulation (P to S)	3 KV AC	3 KV AC
Operating temperature range	-25 °C to 70 °C (>60°C Derating 2.5%/K)	-25 °C to 70 °C (>50°C Derating 2.5%/K)
Operation humidity range	< 95%	< 95%
Operation altitude	5000M, >2000M with derating	5000M, >2000M with derating
Dimensions (D × W × H)	125 X 40 X 130mm	125 X 60 X 130mm
Approvals	CE, CB, Ex, UL508, EN62368	CE, CB, UL508, EN62368
MTBF(40degC)	>500,000hrs	>500,000hrs
Weight	0.8kg	1.45kg