

Data Sheet

Total Power: 600 W
of Outputs: Single
Outputs: 12, 28, 36, 48 Vdc

SPECIAL FEATURES

- 600 W full power at elevated temperatures
- Wide operating temperature range (-40 °C to 85 °C baseplate)
- Adjustable output
- Remote output On/Off
- AC_OK; DC_OK signals
- 5 V standby voltage
- Active current share
- Conduction-cooled/fanless
- I²C / PMBus
- Medical and ITE Safety³
- Suited for BF-type applications
- Active power factor correction
- Optional IP65 variant
- Optional 277 Vac input variant

COMPLIANCE

- EMI Class B
- EN61000 Immunity

SAFETY

- UL + CSA: 60950-1 2nd Ed.
ANSI ES60601-1³
UL 8750⁵
CSA-C22.2 No. 250.13⁵
- TÜV: 60950-1 2nd Ed.
60601-1 3rd Ed.³
EN 61347-1; -2-13⁵
- CB Scheme: IEC 60950-1
IEC 60601-1
IEC 61347-1; -2-13⁵
- China CCC
- CE Mark



Electrical Specifications

Input		
Input range	U Suffix: 90 - 264 Vac (Safety rating: 100 - 240 Vac) 127 - 374 Vdc ⁴ H Suffix: 180 - 305 Vac (Safety rating: 200 - 277 Vac) 254 - 420 Vdc ⁴	
Frequency	47 - 63 / 440 Hz (Safety rating: 50/60 Hz)	
Input fusing	Internal fuse on both L and N lines (12.5 A - U suffix; 7 A - H suffix)	
EMI/RFI	FCC Class B, CISPR22/EN55022 Class B	
MIL-STD-461F EMI ¹	Compliance to CE101, 102; CS101, 114, 115, 116 (with external filter ¹)	
Inrush current	≤ 25 A peak	
Power factor	0.99 typical	
Harmonics	Meets EN61000-3-2 Class A and Class C ²	
Input current	< 10 Arms @ 100 Vac	
Hold up time	20 ms min for Main Output (230 Vac) @ 100% Load	
Efficiency	93.3% typical @ 230 Vac; 100% Load; 28 Vdc	
Leakage current ³	U Suffix: 115 µA typical (< 200 µA max per ANSI/ES60601-1 264 Vac split-phase / 60 Hz) 387 µA typical (< 500 µA max per IEC60601-1; 264 Vac / 50Hz) H Suffix: 0.2 mA typical (< 3.5 mA max per ITE 60950-1 Standard)	
Isolation voltage	U Suffix PRI-SEC: 4,000 Vac (2X MOPP) PRI-Chassis: 1,500 Vac (1X MOPP) SEC-Chassis: 1,500 Vac (1X MOPP)	H Suffix 3,000 Vac 2,000 Vac 1,500 Vac

¹Artesyn Filter PN: 700-014447-0000 (Zhongguang PN: ZGLPG-10-02M).

²Meets Class C ≥ 50% load.

³U suffix have both ITE and Medical Safeties. H suffix carries ITE approval only.

⁴DC input rating not part of product's Safety approval.

⁵LED Lighting approvals apply to all 48 V output variants.

Electrical Specifications

Output

Output rating	See Ordering Information table	
Standby output	5.0 Vdc @ 1.5 A Max	
Set point	± 0.5%	Factory set point
Total regulation	Main Output: ± 2.0% 5 Vsb: ± 5%	Combined Line / Load / Temperature
Rated load	600 W maximum	600 W from -40 °C to 85 °C Baseplate Temp. Derate output to 28 W @ 95 °C Baseplate Temp
Minimum load	0 A	For both Main and 5 Vsb Outputs
Output voltage adjust range	See Ordering Information table	Max power limited to 600 W
Output noise	Main Output: 1.0% max p-p 5 Vsb: 60 mV max p-p	Measured with 0.1 µF Ceramic and 10 µF Tantalum Cap, 20 MHz BW
Remote sense	Compensation up to 500 mV	Pin 10: +Vout_RS / Pin4: -Vout_RS
Overcurrent protection	105 - 130% of full load current	Default is Shutdown mode with Auto-retry every 2~4 sec. Output latches after 20 sec of continuous OCP fault presence. Restart after latch possible through AC recycle, Inhibit toggle or through PMBus.
Overvoltage protection	125 - 145% Vo, nom Main Output 125 - 130% 5 Vsb	Latching / AC Recycle or Inhibit toggle required for PSU restart
Overtemperature protection	> 95 °C Baseplate temperature	Output Shutdown / Auto-recovery
AC_OK	Open Collector; 0.8 Vdc max / 10 mA	Active low when AC is present
DC_OK	Open Collector; 0.8 Vdc max / 10 mA	Active low when Main Output is within regulation
Remote inhibit	Contact Closure	Pin 19: Open/Float = ON; Close/Ground = OFF
# Units in parallel operation	Qualified up to 5 units in parallel. Consult factory if more than 5 are required.	Pin 5: IShare pin for main output only.
Output dimming	0-10 Vdc external voltage; 0-100 kOhm external resistance	Consult with productsupport.ep@artesy.com

Environmental Specifications

Operating temperature range	-40 °C to +85 °C Baseplate temperature
Storage temperature	-40 °C to +85 °C
Humidity	10% to 95%
Altitude	16,402 ft (Operating) / 50,000 ft (Non-Operating)
Shock	MIL-STD-810F 516.5 Procedure I, VI
Vibration	MIL-STD-810F 514.5 Cat. 4, 10
Ingress protection	IP65 (for suffix "-4P")
MTBF (calculated)	>2M Hrs, 25 °C per SR-332 Issue 3
Electromagnetic immunity	Designed to meet EN61000-4-3, -4, -5, -8, -11 (Level 3); EN61000-4-2 (Level 4); EN60601-1-2 and EN55024
	For H suffix, Level 4 for EN61000-4-5