

HP-AR series

*Control power supply specification: +5V

Type	HP-AR200V2PP5	HP-AR300V2PP5	HP-AR400V2PP5	HP-AR500V2PP5	HP-AR600V2PP5	HP-AR700V2PP5	HP-AR800V2PP5	
Rated current [If]	±200A	±300A	±400A	±500A	±600A	±700A	±800A	
Output voltage [Vout]	$V_{out}=(V_{cc}/5) \cdot (V_0+G \cdot I_p)$ (Note3)							
Sensitivity [G]	10mV/A	6.67mV/A	5mV/A	4mV/A	3.33mV/A	2.86mV/A	2.5mV/A	
Load resistance [RL]	$\geq 2.5k\Omega$							
Sensitivity error	I=±If						±1%	
Offset voltage [V0]	I=0						$V_{ref} \pm 18mV (V_{ref}=V_{cc}/2)$	
Output linearity	Within ±1%							
Response time	Within 5 μs (at di/dt=100A/μs) @LPF(fc=133kHz) connected							
Response performance	Within 10% (at di/dt=100A/μs) @LPF(fc=133kHz) connected							
Hysteresis voltage range	±22mV	±18mV	±15mV	±14mV	±12mV	±10mV		
Sensitivity Temp. Coef.	±3%							
Offset voltage Temp. Coef.	±30mV							
Control power supply [Vcc]	+5V±5%							
Ratiometricity error [+5V±5%]	Sensitivity						±0.5%	
	Offset voltage						±0.4%	
Consumption current	Within 40mA							
Operating Temp.	-40°C~+125°C							
Storage Temp.	-40°C~+125°C							
Dielectric withstand voltage	2500V AC 50/60Hz 1minute							
Insulation resistance	Not less than 500MΩ 500V DC							

Note1) The indicated offset voltage is the one after the core hysteresis is removed.

Note2) Output specifications: maximum output current $\leq 2mA$, Load capacitance $\leq 100pF$

Note3) Vcc: Control power supply, V0: Offset voltage, G: Sensitivity, Ip: Primary current

Note4) Sensitivity: $G=2000mV/If$

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Type	HP-AR900V2PP5	HP-ARE10V2PP5	HP-ARE11V2PP5	HP-ARE115V2PP5
Rated current [If]	±900A	±1000A	±1100A	±1150A
Output voltage [Vout]	$V_{out}=(V_{cc}/5) \cdot (V_0+G \cdot I_p)$ (Note3)			
Sensitivity [G]	2.22mV/A	2mV/A	1.82mV/A	1.74mV/A
Load resistance [RL]	$\geq 2.5k \Omega$			
Sensitivity error	I=±If	±1.5%		
Offset voltage [V0]	I=0	Vref ±18mV (Vref=Vcc/2)		
Output linearity	Within ±1%			
Response time	Within 5 μs (at di/dt=100A/μs) @LPF(fc=133kHz) connected			
Response performance	Within 10% (at di/dt=100A/μs) @LPF(fc=133kHz) connected	Within 15% (at di/dt=100A/μs) @LPF(fc=133kHz) connected		
Hysteresis voltage range	±9mV			
Sensitivity Temp. Coef.	±3%			
Offset voltage Temp. Coef.	±30mV			
Control power supply [Vcc]	+5V±5%			
Ratiometricity error [+5V±5%]	Sensitivity	±0.5%		
	Offset voltage	±0.4%		
Consumption current	Within 40mA			
Operating Temp.	-40°C~+125°C			
Storage Temp.	-40°C~+125°C			
Dielectric withstand voltage	2500V AC 50/60Hz 1minute			
Insulation resistance	Not less than 500MΩ 500V DC			

Note1) The indicated offset voltage is the one after the core hysteresis is removed.

Note2) Output specifications: maximum output current $\leq 2mA$, Load capacitance $\leq 100pF$

Note3) Vcc: Control power supply, V0: Offset voltage, G: Sensitivity, Ip: Primary current

Note4) Sensitivity: G=2000mV/If