

# 3000 Series

## 5. Specifications

Model	3203A 3203D	3302A 3302D	3303A 3303D	3601A 3601D	3306D	3603D	33010D
Specification							
Output Voltage	0-20V	0-30V	0-30V	0-60V	0-30V	0-60V	0-30V
Output Current	0-3A	0-2A	0-3A	0-1A	0-6A	0-3A	0-10A
CONSTANT VOLTAGE CHARACTERISTICS							
Load Regulation	± 0.01% +2mV						
Line Regulation	± 0.01% +2mV						
Ripple & Noise ( ≤100W)	≤0.5mVrms						
Ripple & Noise ( ≥100W)	≤1mVrms						
CONSTANT CURRENT CHARACTERISTICS							
Load Regulation ( ≤100W)	≤10mA						
Load Regulation ( ≥100W)	≤15mA						
Line Regulation	± 0.01% +2mA						
Ripple & Noise ( ≤100W)	≤1mA <sub>rms</sub>						
Ripple & Noise ( ≥100W)	≤3mA <sub>rms</sub>						
DISPLAY ACCURACY							
Analog Display (A)	Full-scale 3%						
Digital Display (D)	≤0.1% +2d						
PROGRAMMING SPEED							
Rise Time (No Load)	≤100mS						
(Load)	≤200mS (<6A), ≤ 500mS (<10A), ≤ 1S ( ≥10A)						
Fall Time (No Load)	≤2.5S						
(Load)	≤250mS						
OUTPUT IMPEDANCE	< 2mΩ + 2 μ H						
RECOVERY TIME	≤100 μ S to within 0.1% of set voltage (50% to 100% load change)						
FUNCTIONS							
Series Connection	Different models can be connected in series ( ≤240V)						
Parallel Connection	Same models can be connected in parallel ( ≤ 24 A)						
Master - Slave	N/A						
POWER SOURCE	ACV 100/120/220/240 ±10%, 50/60Hz						
ACCESSORIES	ACS-002 X1						
DIMENSIONS W X H X D (mm)	120 X 160 X 200				230 X 160 X 324		230 X 160 X 366

# 3000 Series

Model	3203AR	3302AR	3303AR	3601AR	3306DR	603DR	33010DR
Specification	3203DR	3302DR	3303DR	3601DR			
Output Voltage	0-20V	0-30V	0-30V	0-60V	0-30V	0-60V	0-30V
Output Current	0-3A	0-2A	0-3A	0-1A	0-6A	0-3A	0-10A
CONSTANT VOLTAGE CHARACTERISTICS							
Load Regulation	± 0.01% +2mV						
Line Regulation	± 0.01% +2mV						
Ripple & Noise ( ≤100W)	≤1mVrms						
Ripple & Noise ( ≥100W)	≤2mVrms						
CONSTANT CURRENT CHARACTERISTICS							
Load Regulation ( ≤100W)	≤10mA						
Load Regulation ( ≥100W)	≤15mA						
Line Regulation	± 0.01% +2mA						
Ripple & Noise ( ≤100W)	≤1mArms						
Ripple & Noise ( ≥100W)	≤3mArms						
DISPLAY ACCURACY							
Analog Display (A)	Full-scale 3%						
Digital Display (D)	≤ 0.1% +2d						
PROGRAMMING SPEED							
Rise Time (No Load)	≤ 100mS						
(Load)	≤200mS (<6A), ≤ 500mS (<10A), ≤ 1S ( ≥ 10A)						
Fall Time (No Load)	≤2.5S						
(Load)	≤250mS						
OUTPUT IMPEDANCE	<2mΩ + 2 μH						
RECOVERY TIME	≤ 100 μS to within 0.1% of set voltage (50% to 100% load change)						
FUNCTIONS							
Serial Connection	Different models can be connected in series ( ≤ 240V)						
Parallel Connection	Same models can be connected in parallel ( ≤ 24A)						
Master - Slave	Yes						
REMOTE CONTROL							
Voltage Programmable							
By External DC Voltage	0 to 10V, Control 0 to voltage setting						
By External Resistance	0 to 10KΩ, Control 0 to maximum voltage						
Current Programmable							
By External DC Voltage	0 to 10V, Control 0 to current setting						
By External Resistance	0 to 10KΩ, Control 0 to maximum current						
VOLTAGE/CURRENT READBACK AVAILABLE							
Voltage Readback	0 to 10V for full-scale voltage						
Current Readback	0 to 0.3V for full-scale current						
OUTPUT ON/OFF CONTROL	YES						
REMOTE SENSING	Compensate voltage drop Up to 2VDC						
POWER SOURCE	ACV 100/120/220/240 ±10%, 50/60Hz						
ACCESSORIES	ACS-002 X1, phone-jack plug X2, 9-pin D-type connector X 2						
DIMENSIONS	120 X 160 X 200				230 X 160 X 324		230 X 160
W X H X D (mm)							X 366