

Output Slew Rates

The DSP-Wx series power supplies allow you to specify the slew rates for Voltage, Current, and Power. The supported slew rates are shown in the charts below.

1. Setting ranges for Voltage slew rates :

Model	80V	160V	250V	350V	500V
5kW	0.008V/ms ~ 80V/ms	--	0.025V/ms ~ 250V/ms	0.035V/ms ~ 350V/ms	0.05V/ms ~ 500V/ms
6kW	--	--	--	--	0.05V/ms ~ 500V/ms
10kW	0.008V/ms ~ 80V/ms	0.016V/ms ~ 160V/ms	0.025V/ms ~ 250V/ms	0.035V/ms ~ 350V/ms	0.05V/ms ~ 500V/ms
12kW	--	--	--	--	0.05V/ms ~ 500V/ms
15kW	0.008V/ms ~ 80V/ms	--	0.025V/ms ~ 250V/ms	0.035V/ms ~ 350V/ms	0.05V/ms ~ 500V/ms
18kW	--	--	--	--	0.05V/ms ~ 500V/ms

Model	650V	750V	1000V	1050V	1300V
5kW	0.065V/ms ~ 650V/ms	--	--	--	--
6kW	0.065V/ms ~ 650V/ms	--	--	--	--
10kW	0.065V/ms ~ 650V/ms	--	0.1V/ms ~ 1000V/ms	--	0.13V/ms ~ 1300V/ms
12kW	0.065V/ms ~ 650V/ms	--	0.1V/ms ~ 1000V/ms	--	0.13V/ms ~ 1300V/ms
15kW	0.065V/ms ~ 650V/ms	0.075V/ms ~ 750V/ms	--	0.105V/ms ~ 1050V/ms	--
18kW	0.065V/ms ~ 650V/ms	--	--	--	--

Model	1500V	1950V
15kW	0.15V/ms ~ 1500V/ms	0.195V/ms ~ 1950V/ms
18kW	0.15V/ms ~ 1500V/ms	0.195V/ms ~ 1950V/ms

2. Setting ranges for Current slew rates :

Model	80V	160V	250V	350V	500V
5kW	0.018A/ms ~ 180A/ms	--	0.006A/ms ~ 60A/ms	0.0042A/ms ~ 42A/ms	0.003A/ms ~ 30A/ms
6kW	--	--	--	--	0.0036A/ms ~ 36A/ms
10kW	0.036A/ms ~ 360A/ms	0.018A/ms ~ 180A/ms	0.012A/ms ~ 120A/ms	0.0084A/ms ~ 84A/ms	0.006A/ms ~ 60A/ms
12kW	--	--	--	--	0.0072A/ms ~ 72A/ms
15kW	0.054A/ms ~ 540A/ms	--	0.018A/ms ~ 180A/ms	0.0126A/ms ~ 126A/ms	0.009A/ms ~ 90A/ms
18kW	--	--	--	--	0.0108A/ms ~ 108A/ms

Model	650V	750V	1000V	1050V	1300V
5kW	0.0023A/ms ~ 23A/ms	--	--	--	--
6kW	0.0027A/ms ~ 27A/ms	--	--	--	--
10kW	0.0046A/ms ~ 46A/ms	--	0.003A/ms ~ 30A/ms	--	0.0023A/ms ~ 23A/ms
12kW	0.0054A/ms ~ 54A/ms	--	0.0036A/ms ~ 36A/ms	--	0.0027A/ms ~ 27A/ms
15kW	0.0069A/ms ~ 69A/ms	0.006A/ms ~ 60A/ms	--	0.0042A/ms ~ 42A/ms	--
18kW	0.0081A/ms ~ 81A/ms	--	--	--	--

Model	1500V	1950V
15kW	0.003A/ms ~ 30A/ms	0.0023A/ms ~ 23A/ms
18kW	0.0036A/ms ~ 36A/ms	0.0027A/ms ~ 27A/ms

3. Setting ranges for Power slew rates :

Model	80V	160V	250V	350V	500V
5kW	0.5W/ms ~ 500W/ms	--	0.5W/ms ~ 500W/ms	0.5W/ms ~ 500W/ms	0.5W/ms ~ 500W/ms
6kW	--	--	--	--	0.6W/ms ~ 600W/ms
10kW	1W/ms ~ 1000W/ms	1W/ms ~ 1000W/ms	1W/ms ~ 1000W/ms	1W/ms ~ 1000W/ms	1W/ms ~ 1000W/ms
12kW	--	--	--	--	1.2W/ms ~ 1200W/ms
15kW	1.5W/ms ~ 1500W/ms	--	1.5W/ms ~ 1500W/ms	1.5W/ms ~ 1500W/ms	1.5W/ms ~ 1500W/ms
18kW	--	--	--	--	1.8W/ms ~ 1800W/ms

Model	650V	750V	1000V	1050V	1300V
5kW	0.5W/ms ~ 500W/ms	--	--	--	--
6kW	0.6W/ms ~ 600W/ms	--	--	--	--
10kW	1W/ms ~ 1000W/ms	--	1W/ms ~ 1000W/ms	--	1W/ms ~ 1000W/ms
12kW	1.2W/ms ~ 1200W/ms	--	1.2W/ms ~ 1200W/ms	--	1.2W/ms ~ 1200W/ms
15kW	1.5W/ms ~ 1500W/ms	1.5W/ms ~ 1500W/ms	--	1.5W/ms ~ 1500W/ms	--
18kW	1.8W/ms ~ 1800W/ms	--	--	--	--

Model	1500V	1950V
15kW	1.5W/ms ~ 1500W/ms	1.5W/ms ~ 1500W/ms
18kW	1.8W/ms ~ 1800W/ms	1.8W/ms ~ 1800W/ms

*1. Exact Slew Rate may be affected by other settings and load characteristics.

*2. For an explanation of Slew Rate, please refer to page 9 "Adjustable Output On/Off Slope."

*3. For higher Slew Rates, please contact iDRC.