

Keysight N6781A–N6786A Differences

Feature (● = available)	Source/Measure Units (SMU)					Application-Specific	
	N6781A	N6782A	N6784A	N6785A	N6786A	N6783A BAT	N6783A MFG
Output rating	20 W	20 W	20 W	80 W	80 W	24 W	18 W
2-quadrant operation	●	●		●	●	●	●
4-quadrant operation			●				
Auxiliary voltage measurement input	●			●			
Output disconnect relays	●	●	●	●	●	Option 761	Option 761
Arbitrary waveform generation ^{NOTE 1}	●	●	●	●	●	●	●
Negative voltage protection	●	●	●	●	●	●	●
Voltage or current priority mode	●	●	●	●	●		
CC load/CV load	●	●	●	●	●		
Voltage/current measurement only	●	●	●	●	●		
Battery emulator/charger	●			●			
Programmable output resistance	●			●			
Multiple voltage output ranges	3	3	3	4	4		
Multiple current output ranges	3	3	4	4	4		
Multiple voltage measurement ranges	3	3	3				
Multiple current measurement ranges	4	4	4	3	3	2	2
Voltage or current scope traces	●	●	●	●	●	●	●
Simultaneous voltage and current measurements	●	●	●	●	●		
Simultaneous voltage and current data logging ^{NOTE 2}	●	●	●	●	●		
Interleaved voltage and current data logging ^{NOTE 2}						●	●
Seamless measurement autoranging	●	●	Opt SMR	●	●		
SCPI command output list capability ^{NOTE 1, 3}	●	●	●	●	●	●	●
SCPI command array readback ^{NOTE 3}	●	●	●	●	●	●	●
SCPI command programmable sample rate ^{NOTE 3}	●	●	●	●	●	●	●
SCPI command external data logging ^{NOTE 3}	●	●	●	●	●	●	●
SCPI command histogram measurements ^{NOTE 3}	●	●		●	●		
Double-wide (occupies 2 channel locations)				●	●		

¹ Arbitrary waveform generation and list capability are not available on the negative current output on Model N6783A.

² Option 055 deletes the Data Logger function on Model N6705.

³ Only available when using the remote interfaces; not the front panel.