

GFK-0122

Examples of Typical System Configurations

Examples of the total load requirements for all modules installed in a base unit are shown below. These are only typical examples, and will vary with the module requirements for your application. If the load requirements for all modules is close to, or exceeds the maximum current supplied by the power supply installed in the base unit, you will need to upgrade the power supply, add an additional base unit, or install a different mix of modules. The maximum load for an I/O module is shown; typical load values would normally be less during normal system operation.

Example for System 1:

Power supply: IC655PWR501, supplies 12 amps (12000 mA) total load.
Base unit: IC655CHS508, 8 I/O slots

<u>Quantity</u>	<u>Catalog No.</u>	<u>Description and No. of Circuits</u>	<u>Load/Module</u>	<u>Total Load in mA</u>
1	IC655CPU500	CPU	1500	1500
4	IC655MDL525	115/230 V ac In, 16	100	400
4	IC655MDL576	115/230 V ac Isolated Out, 16	650	2600
1	IC655PER500	OIU, if attached (the OIU load can be as much as 1 amp, when used to load PROM memory).	400	400
				Total 4900

Example for System 2:

Power supply: IC655PWR500, supplies 6 amps (6000 mA) total load.
Base unit: IC655CHS508, 8 I/O slots

<u>Quantity</u>	<u>Catalog No.</u>	<u>Description and No. of Circuits</u>	<u>Load/Module</u>	<u>Total Load in mA</u>
1	IC655CPU500	CPU	1500	1500
3	IC655MDL502	12 - 24 V dc In, Negative Logic, 32	150	450
5	IC655MDL556	12 - 24 V dc Out, Positive Logic, 32	800	4000
1	IC655PER500	OIU, if attached	400	400
				Total 6350

In the example for system 2, the total of the load requirements is greater than the load capacity of the power supply, therefore this configuration is not acceptable. Select either a different mix of modules, upgrade the power supply to the 12 amp version, or add an expansion base unit.

Example for System 3:

Power supply: IC655PWR500, supplies 6 amps (6000 mA) total load.
Base unit: IC655CHS506, 6 I/O slots

<u>Quantity</u>	<u>Catalog No.</u>	<u>Description and No. of Circuits</u>	<u>Load/Module</u>	<u>Total Load in mA</u>
1	IC655CPU500	CPU	1500	1500
3	IC655MDL512	12 - 24 V ac/dc In, Positive Logic, 32	160	480
3	IC655MDL556	12 - 24 V dc Out, Positive Logic, 32	800	2400
1	IC655PER500	OIU, if attached	400	400
				Total 4780