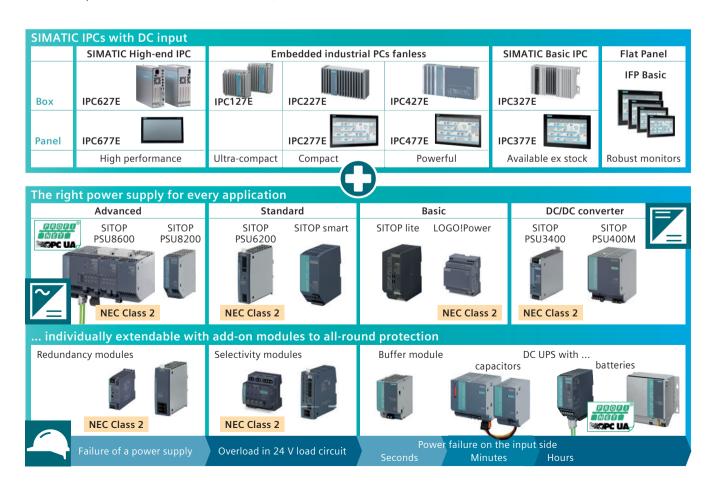


As digitalization grows, the demands on computing power, functionality and availability of industrial PCs are increasing. SIMATIC IPC offers a wide range of innovative product series that will meet your needs for years to come. A reliable power supply is a prerequisite for stable operation. SITOP offers the

right power supply for all SIMATIC IPCs with 24 V DC input, even when NEC Class 2 supply is required. For buffering in the event of a power failure and for safe shutdown of the PC, the SITOP power supply units can be upgraded to an uninterruptible DC power supply (DC UPS). The UPS modules can communi-

cate with the PC via USB or Industrial Ethernet/PROFINET and can be easily configured and diagnosed using the SITOP Manager in Windows.

This brochure offers recommendations for the matching power supply and DC UPS for the SIMATIC IPC product series without additional loads.





24 V DC Power supply

SIMATIC IPC	Min. Input voltage [V]	Max. Inrush current [A]	Rated current [A]	Recommended power supply w/o DC UPS		Recommended power supply with DC UPS	
(24 V DC)				Power supply 24 V DC	Article no.	Power supply 24 V DC	Article no.
IPC127E	19.2	1.8	0.7	LOGO!Power 1.3 A	6EP3331-6SB00-0AY0		6EP3333-7SB00-0AX0
IPC227E	19.2	4	1.8	SITOP PSU6200 3.7 A	6EP3333-7LB00-0AX0	SITOP PSU6200 5 A	
IPC277E (7", 9")	19.2	2	1.4	LOGO!Power 2.5 A	6EP3332-6SB00-0AY0		
IPC277E (12", 15", 19")	19.2	4.5	3		6EP3333-7LB00-0AX0	SITOP PSU6200 5 A	6EP3333-7SB00-0AX0
IPC327E	20.4	4	2.5	SITOP PSU6200 3.7 A			
IPC377E (12", 15", 19")	20.4	4	2.5	3110P P306200 3.7 A			
IPC427E	19.2	6.5	3.4			SITOP PSU6200 10 A	6EP3334-7SB00-3AX0
IPC477E	19.2	6.5	3.4	SITOP PSU6200 5 A	6EP3333-7SB00-0AX0	SITOP PSU6200 10 A	6EP3334-7SB00-3AX0
IPC627E	19.2	13	8				
IPC627E (5 slot)	19.2	13	8	SITOP PSU6200 10 A	6EP3334-7SB00-3AX0	SITOP PSU6200 20 A	6EP3336-7SB00-3AX0
IPC677E	19.2	14	8				
IOT2040	9	1.2	0.5	LOGO!Power 1.3 A	6EP3331-6SB00-0AY0	LOGO!Power 2.5 A	6EP3332-6SB00-0AY0
IFP basic	20.4	2.5	2.5	LOGO!Power 2.5 A	6EP3332-6SB00-0AY0	SITOP PSU6200 5 A	6EP3333-7SB00-0AX0

24 V DC supply according to NEC Class 2 (max. 100 W)

24 V DC power supply, NEC Class 2 not necessary Add-on module with NEC Class 2 necessary > see configuration examples on the next page

DC UPS		For brief voltage drops (bridging min. 15 seconds): SITOP UPS500S	For bridging longer power failures: SITOP UPS1600 (DC UPS module) + SITOP UPS1100 (battery module)			
		SITOP UPS500S: Appr. 8 years service life ¹⁾ at 20 °C ambient temperature	SITOP UPS1600: in combination with battery module UPS1100 lead or lithium	SITOP UPS1100 lead battery: Appr. 4 years service life ¹⁾ at 20 °C ambient temperature	SITOP UPS1100 lithium battery (LiFePO): Appr. 15 years service life ¹⁾ at 20 °C ambient temperature	
SIMATIC IPC	Rated current [A]	Recommended UPS: Maintenance-free DC UPS in capacitor technology, with USB interface	Recommended UPS modules: - 0AYO: Signaling contacts - 1AYO: USB interface - 2AYO: Ethernet/PROFINET	Recommended lead battery. Bridging time min. 5 min.	Recommended LiFePO battery (Lithium-Ferrite- Phosphate). Bridging time min. 20 min.	
IPC127E	1.8	6EP1933-2EC41	6EP4134-3AB00AY0	6EP4131-0GB00-0AY0	6EP4133-0JB00-0AY0	
IPC227E	1.8	2.5 kWs	10 A	1.2 Ah	5 Ah	
IPC277E (7", 9")	1.4			i lin		
IPC277E (12", 15", 19")	3			6EP4133-0GB00-0AY0		
IPC327E	2.5			3.2 Ah		
IPC377E (12",15",19")	2.5				TOS INSTITUTE OF THE STATE OF T	
IPC427E	3.4				OR STATE OF THE PROPERTY OF TH	
IPC477E	3.4					
IPC627E	8	6EP1933-2EC51	6EP4136-3AB00AY0			
IPC627E (5 slot)	8	5 kW	20 A			
IPC677E	8					
IOT2040	0.5	6EP1933-2EC41	6EP4134-3AB00AY0	6EP4131-0GB00-0AY0		
IFP Basic	2.5	2.5 kWs	10 A	6EP4133-0GB00-0AY0		

 $^{^{1)}}$ Drop to 80% of the original capacity, depending on battery temperature Specifications at rated input voltage and ambient temperature +25 $^{\circ}$ C (unless otherwise specified)





Uninterruptible 24 V DC supply in NEC Class 2 for SIMATIC IPC

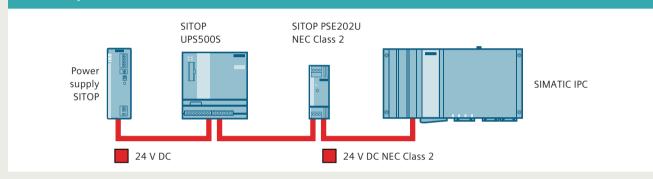
If SIMATIC IPCs with the required NEC Class 2 supply (max. 100 VA) are supplied via a DC UPS, it is not enough to use a power supply with NEC Class 2. This is because in buffer mode the IPC is supplied via the energy storage device (battery or capacitors), which does not limit the power output. SITOP add-on modules in NEC Class 2

ensure that the power limitation to 100 VA is maintained in both mains and buffer operation. This allows for the use of a more powerful power supply unit. Only the IPC according to NEC Class 2 is supplied by the redundancy module PSE202U 3.5 A. The PSE200U 4 x 3 A selectivity module is your best choice when several loads

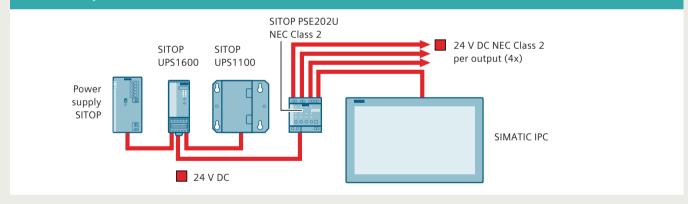
are supplied while also being protected against overload.

With the CNX8600 8 x 2.5 A module, the SITOP PSU8600 power supply system also offers selective protection for NEC Class 2 outputs, which are protected against power failure by the system's own UPS modules.

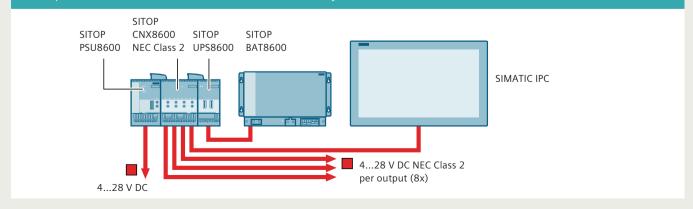
SIMATIC IPC supply with a powerful power supply unit and capacitor based DC UPS SITOP UPS500S and redundancy module SITOP PSE202U 3.5 A NEC Class 2



SIMATIC IPC supply with a powerful power supply unit and DC UPS module SITOP UPS1600 with battery module UPS1100 and selectivity module SITOP PSE200U 4 x 3 A NEC Class 2



SIMATIC IPC supply via power supply system SITOP PSU8600 with expansion module CNX8600 NEC Class 2 and buffering of outputs via DC UPS module SITOP UPS8600 with battery module SITOP BAT8600



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