

OPTIMAL FOR THE PC-BASED AUTOMATION

SIMATIC IPC powered by SITOP

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 communicate 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.





IFP V2 Pro

1.9

24V DC Power supply

SIMATIC IPC	Min. input pa nkage [V]	Max. inrush current [A]	Rated current	Recommended power supply w/o DC UPS		Recommended power supply with DC UPS	
(DC 24 V)			[A]	Power supply	Article no.	Power supply	Article no.
IPC BX-21A	19.2	2.0	1.3	LOGO!Power 2.5 A SITOP PSU6200 2.5 A	6EP3332-6SB00-0AY0 6EP3332-7SB00-0AX0	SITOP PSU6200 5 A	6EP3333-7SB00-0AX0
IPC227G	19.2	1.9	1.9				
IPC277G (7", 10")	19.2	1.9	1.9				
IPC277G (12", 15", 19", 22", 24")	19.2	5	5	SITOP PSU6200 5 A	6EP3333-7SB00-0AX0	SITOP PSU6200 10 A	6EP3334-7SB00-3AX0
IPC327G	19.2	2.5	2.5		6EP3332-6SB00-0AY0 6EP3332-7SB00-0AX0	SITOP PSU6200 5 A	6EP3333-7SB00-0AX0
IPC377G (12", 15", 19", 22")	19.2	2.5	2.5	LOGO!Power 2.5 A SITOP PSU6200 2.5 A			
IPC BX-32A	9	=< 40 A for	3.3 (24V)	SITOP PSU6200 3.7 A	6EP3333-7LB00-0AX0		
IPC PX-32A	9	1.6 ms, < 25 A for	3.4 (24V)			SITOP PSU6200 10 A	6EP3334-7SB00-3AX0
IPC BX-35A	9	additional 4 ms	3.4 (24V)				
IPC BX-39A	19.2	6.5	3.4				
IPC PX-39A	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		6EP3334-7SB00-3AX0	SITOP PSU6200 20 A	6EP3336-7SB00-3AX0
IPC677E	19.2	14	8	SITOP PSU6200 10 A			
IPC BX-56A, -59A 220 W/400 W	9/19.2	52/61	13/18 (24 V)	SITOP PSU6200 20 A	6EP3336-7SB00-3AX0	SITOP PSU6200 20 A	6EP3336-7SB00-3AX0
IOT2050	12	1.7	0.5				
IFP basic	20.4	20.4 2.5 2.5		SITOP PSU6200 2.5 A	6EP3332-6SB00-0AY0 6EP3332-7SB00-0AX0	SITOP PSU6200 5 A	6EP3333-7SB00-0AX0
IFP V2 Pro	19.2	k.A.	1.0 (12") 1.9 (24")				

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

Add-on module with NEC Class 2 necessary > see configuration examples on the next page

24 V DC power supply. NEC Class 2 not necessary

DC UPS		For brief voltage drops (bridging min. 15 seconds): SITOP UPS500S	For bridging longer power failures: SITOP UPS1600 (DC UPS module) + SITOP BAT1600 (battery module)			
		SITOP UPS500S: Appr. 8 years service life ¹⁾ at 20°C ambient temperature	SITOP UPS1600: In combination with battery module BAT1600 lead or lithium	BAT1600 lead battery: Appr. 4 years service life ¹⁾ at 20°C ambient temperature	BAT1600 lithium battery (LiFePO4): Appr. 11 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: – 0AY0: Signaling contacts – 1AY0: USB interface – 2AY0: Ethernet/PROFINET	Recommended lead battery. Bridging time min. 15 min.	Recommended LiFePO4 battery (Lithium-Ferrite- Phosphate). Bridging time min. 20 min.	
IPC BX-21A	1.9	6EP1933-2EC41	6EP4134-3AB00-□AY0	6EP4133-0GA00-0AY0	6EP4132-0JA00-0AY0	
IPC227G	1.8		10.1	3.2 Ah	2.5 Ah	
IPC277G (7", 10")	1.9	2.5 KWS	10 A			
IPC277G (12", 15", 19", 22", 24")	5					
IPC327G IPC377G (12", 15", 19", 22") IPC BX-32A IPC PX-32A IPC BX-35A IPC BX-35A IPC BX-39A	2.5 2.5 3.3 3.4 3.4 3.4					
	3.4					
IPC677F	8	5 kWs	6EP4136-3AB00-□AY0	6EP4135-0GE00-0AY0	6EP4134-0JA00-0AY0 7.5 Ah	
IPC BX-56A, -59A	13/18	6EP1933-2EC51 + 6EP1935-5PG01 10 kWs, max.15 A	20 A	2 Ah		
IOT2040 IFP Basic	0.5	6EP1933-2EC41 2.5 kWs	6EP4134-3AB00-⊡AY0 10 A	6EP4133-0GA00-0AY0 3.2 Ah	6EP4132-0A00-0AY0 2.5 Ah	

¹⁾Drop to 80% of the original capacity, depending on battery temperature Specifications at rated input voltage and ambient temperature +25°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.





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