

Power Supplies

3-Phase Power Supplies

12V, 24V 90-960W

36V, 48V, 72V 240-960W

380-480V AC/DC-Converters

12V, 24V

90-960W

36V, 48V, 72V

240-960W



Output Voltage	12V	24V		24V				24V	36V			48V				72V
Output Current	8A	3.75A	4.2A	5A	10A	20A	40A	40A	13.3A	26.6A	26.7A	5A	10A	20A	20A	13.3A
Adjustment Range	12-15V	24-28V	24-28V	24-28V	24-28V	24-28V	24-28V	24V	36-42V	36V	36-42V	48-56V	48-55V	48-54V	48V	72V
Output Current	8-6.4A	3.75-3.2A	4.2-3.6A	5-4.3A	10-8.6A	20-17.5A	40-34.3A	40A	13.3A	26.6A	26.7-22.9A	5-4.3A	10A	20-17.8A	20A	13.3A
Output Power	96W	90W	100W	120W	240W	480W	960W	960W	480W	960W	960W	240W	480W	960W	960W	960W
Power Reserves	-	-	-	20%	20%	50%	50%	25%	50%	25%	50%	20%	50%	50%	25%	25%
Ripple & Noise max. [mV _{pp}]	100mV	50mV	50mV	50mV	50mV	100mV	100mV	1500mV	100mV	2000mV	130mV	100mV	100mV	150mV	2500mV	3000mV
AC Input Voltage	2AC 380-480V -15%/+20% wide range	2AC 380-480V ±15% wide range	2AC 380-480V ±15% wide range	2AC 380-480V -15%/+20% wide range	3AC 380-480V -15%/+20% wide range	3AC 380-480V ±15% wide range	3AC 380-480V -15%/+20% wide range	3AC 400V ^{b)} 3AC 480V ^{b)} ±15%	3AC 380-480V ±15% wide range	3AC 400V ^{b)} 3AC 480V ^{b)} ±15%	3AC 380-480V -15%/+20% wide range	3AC 380-480V -15%/+20% wide range	3AC 380-480V ±15% wide range	3AC 380-480V -15%/+20% wide range	3AC 400V ^{b)} 3AC 480V ^{b)} ±15%	3AC 400V ^{b)} 3AC 480V ^{b)} ±15%
Harmonic Correction	PFC inductor	-	-	PFC inductor	PFC inductor	active	active	active	active	active	active	PFC inductor	active	active	active	active
EN 61000-3-2 (PFC-Norm)	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled
Power Factor, typ.	0.44	0.60	0.60	0.45	0.53	0.94	0.88	0.93	0.94	0.93	0.88	0.53	0.94	0.88	0.93	0.93
Input Inrush Current Limiter	active	NTC	NTC	active	active	active	active	active	active	active	active	active	active	active	active	active
Input Inrush Current	4A/4A ^{e)}	36A/45A ^{d)}	36A/45A ^{d)}	4A/4A ^{e)}	4A/4A ^{f)}	3A/3A ^{d)}	4.5A/4.5A ^{d)}	2A ^{g)}	3A/3A ^{d)}	2A ^{g)}	4.5A/4.5A ^{g)}	4A/4A ^{f)}	3A/3A ^{d)}	4.5A/4.5A ^{d)}	2A ^{g)}	2A ^{g)}
External Input Fuse Recommendation	B - 6A or C - 3A	B - 10A or C - 6A	B - 10A or C - 6A	B - 6A or C - 3A	B - 6A or C - 3A	B - 6A or C - 3A	B - 6A or C - 6A	B - 6A or C - 3A	B - 6A or C - 3A	B - 6A or C - 3A	B - 6A or C - 6A	B - 6A or C - 3A	B - 6A or C - 3A	B - 6A or C - 6A	B - 6A or C - 3A	B - 6A or C - 3A
DC Input Voltage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Efficiency, typ.	85.4%	89.5%	89.5%	90.4%	92.8%	95.0%	95.3%	95.5%	94.8%	95.5%	95.3%	92.8%	95.4%	95.4%	96.0%	95.5%
Power Losses, typ.	16.4W	10.5W	11.7W	12.7W	18.6W	25.3W	47.3W	45.2W	26.3W	45.2W	47.3W	18.6W	23.1W	46.3W	40.0W	45.2W
MTBF (+40°C, SN 29500)	983 kh	1594 kh	1594 kh	1173 kh	975 kh	690 kh	375 kh	529 kh	690 kh	529 kh	375 kh	1051 kh	690 kh	375 kh	540 kh	539 kh
Operat. Temperature Range	-25°C to +70°C	-10°C to +70°C	-10°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Derating +60°C to +70°C	2.5W/°C	2W/°C	2.5W/°C	3W/°C	6W/°C	12W/°C	24W/°C	24W/°C	12W/°C	24W/°C	24W/°C	6W/°C	12W/°C	24W/°C	24W/°C	24W/°C
Connection Terminals	screw terminals	spring terminals	spring terminals	screw terminals	screw terminals	spring terminals	screw terminals	screw terminals	spring terminals	screw terminals	screw terminals	screw terminals	spring terminals	screw terminals	screw terminals	screw terminals
Dimensions WxHxD	40x124x117mm	72.5x75x103mm	72.5x75x103mm	40x124x117mm	62x124x117mm	65x124x127mm	110x124x127mm	96x124x159mm	65x124x127mm	96x124x159mm	110x124x127mm	62x124x117mm	65x124x127mm	110x124x127mm	96x124x159mm	96x124x159mm
Weight	500g	360g	360g	500g	750g	870g	1500g	1400g	870g	1400g	1500g	750g	870g	1500g	1400g	1400g
DC-OK Signal	-	-	-	-	-	yes	yes	-	yes	-	yes	-	yes	yes	-	-
Special Features		NEC CLASS 2						semi-regulated	semi-regulated						semi-regulated	semi-regulated
Order Number	CT5.121	ML90.200	ML100.200	CT5.241	CT10.241 CT10.241-C1 ^{a)}	QT20.241 QT20.241-C1 ^{a)}	QT40.241	XT40.241 ^{b)} XT40.242 ^{b)}	QT20.361	XT40.361 ^{b)} XT40.362 ^{b)}	QT40.361	CT10.481	QT20.481	QT40.481	XT40.481 ^{b)} XT40.482 ^{b)}	XT40.721 ^{b)} XT40.722 ^{b)}

a) Conformal Coated b) Separate units for 3AC 400V and 3AC 480V required, use XT40.241, XT40.361, XT40.481, XT40.721 for 3AC 400V mains and XT40.242, XT40.362, XT40.482, XT40.722 for 3AC 480V mains c) Peak current at 2x400Vac / 2x480Vac, ambient temperature +25°C and cold start d) At 3 x 400V, 50Hz / 3 x 480Vac, 60Hz, independent of temperature e) Peak current at 2 x 400Vac / 2 x 480Vac, independent of temperature f) Peak current at 3 x 400Vac / 3 x 480Vac, independent of temperature g) At 3 x 400Vac, independent of temperature