



## UPS-MAK Outdoor Series 20 kVA UPS <http://www.mak-powersis.de/20kva-outdoor-ups1.html>

<b>POWER</b>	Power kVA	20 kVA
	Power kW	14kW
	Efficiency Online	@%50 Load %91 & @%100 Load %95,5
	Efficiency EcoMode	>%98

<b>INPUT</b>	Voltage & Frequency	400VAC ( three-phase ) & 50Hz / 60Hz
	Voltage optional	380VAC - 400VAC - 415VAC ( three-phase )
	Voltage range	- %15 / +%15 (-%36 Optional)
	Power factor	0,99
	THDi	<%4

<b>By-PASS</b>	Dual input	Optional
	Voltage range	-%10 / +%10 ( adjustable )
	Frequency range	-%10 / +%10 ( adjustable )

<b>OUTPUT</b>	Voltage & Frequency	400VAC ( three-phase ) & 50Hz / 60Hz
	Voltage form	Pure Sinus
	THD(u)	%2< Linear load & <%5 Nonlinear load
	Crest factor	3:1
	Power factor	0.9 ( Dreilevel Technologie )

<b>GENERAL</b>	Overload capability	<%110 = 60Min & <130% = 10Min & <150% = 1Min
	Technology	Three Level Rectifiers & Inverters
	Control	DSP & SPWM
	Parallel system	6 System
	Communication	SNMP, RS232, RS485, USB, MODBUS
	Dry contact	Optional ( 4 – 10 Pins )
	Temperature	0C / +40C Celcius – Batteries 0C – 25C
	Moisture	%90
	Noice (1m)	<70Db
	LCD	Backlit alphanumeric display
	Batteries	60 - 62 – 64 ( 12V AGM & GEL Batterien ) oder ( 40 Batterien Optional )
	Standard protection	EN 62040-1
	Standard EMC	EN 62040-2
	Maximum altitude	2200 Meter

<b>UPS CABINET</b>	Maximum W (mm)	780
	Maximum D (mm)	1260
	Maximum H (mm)	1850
	H (kg)	700
	Protection	IP20 or optional Customized / Outdoor IP21, IP22, IP42, IP55, IP65

For outdoor 20kVA UPS Germany please send mail to [sales@mak-powersis.de](mailto:sales@mak-powersis.de)