

UPS output power rating (0,9 p.f.)						
kVA	8	10	12	15	20	30
kW	7.2	9	10.8	13.5	18	27
General						
Efficiency in double conversion mode (full load)	92% (without transformer)			93% (without transformer)		
Efficiency in double conversion mode (half load)	90% (without transformer)				91% (without transformer)	
Distributed paralleling with Hot Sync technology	4					
Field upgradeable	yes					
Inverter/rectifier topology	transformer-free IGBT with PWM					
Audible noise	< 50 dB					
Colour	RAL 7035					

Input		
Nominal voltage rating (configurable)	380, 400, 415 V 50/60 Hz	
With transformer	e.g. 230, 400, 440, 480, 690 V (internal)	e.g. 230, 440, 480, 690 V (external)
Input voltage range	Low -20% at 100% load/-50% at 50% load without battery discharge; High +10%/max +20%	
Input frequency range	45-65 Hz	
Input power factor	0,99	
Input ITHD	less than 4,5%	
Soft start capability	Yes	
Internal backfeed protection	Yes	

Output		
Nominal voltage rating (configurable)	380, 400, 415V 50/60 Hz	220, 230, 240V 50/60 Hz
With external transformer	e.g. 230, 400, 440, 480, 690 V	e.g. 230, 440, 480, 690 V
Output UTHD	<3% (100% linear load); <5% (reference non linear load)	
Output power factor	0,9 (e.g. 9 kW at 10 kVA)	0,9 (e.g. 27 kW at 30 kVA)
Permitted load power factor	0,7 lagging - 0,8 leading	

Battery		
Type	Maintenance-free VRLA batteries, NiCd	
Charging method	ABM technology or Float	
Temperature compensation	Optional	
Battery nominal voltage (lead-acid)	384 V (32x12 V, 192 cells)	432 V (36x12 V, 216 cells)
Charging current / Model	Default 3 A *Max 30 A	Default 3 A *Max 60 A

*May be limited by maximum UPS input current rating

Accessories		
	Isolation transformer, long-life batteries, external battery cabinets, UPS Center (input, bypass, distribution), X-Slot connectivity (Web/SNMP, ModBus/ Jbus, Relay, Hot Sync, ViewUPS-X remote display), Hot Sync parallel tie cabinet, integrated manual bypass, external maintenance bypass switch	Isolation transformer, long-life batteries, external battery cabinets, X-Slot connectivity (Web/SNMP, ModBus/ Jbus, Relay, Hot Sync, ViewUPS-X remote display), Hot Sync parallel tie cabinet, integrated manual bypass, external maintenance bypass switch

Communications	
X-Slot	2 communication bays
Serial ports	1 available
Relay inputs/outputs	2/1 programmable

Compliance with standards	
Safety (CB certified)	IEC 62040-1, IEC 60950-1
EMC	IEC 62040-2, IEC 60945
Performance	IEC 62040-3
Approvals	CE, DNV Type Approval, BV Type Approval and ABS PDA up to 15kVA
Other classification survey reports	On request

In the interests of continuous product improvement all specifications are subject to change without notice.

Stand-alone UPS with 1-phase input				
Description	Rating	Back-up	Dimensions (HxWxD)	Weight
9155-8-ST-M	8 kVA / 7.2 kW		960x313x714 (+150 mm)	170/190 kg
9155-10-ST-M	10 kVA / 9 kW		960x313x714 (+150 mm)	170/190 kg
Stand-alone UPS with 3-phase input				
9155-8-NT-M	8 kVA / 7.2 kW		960x313x714 (+150) mm	170/190 kg
9155-10-NT-M	10 kVA / 9 kW		960x313x714 (+150) mm	170/190 kg
9155-12-NT-M	12 kVA / 10.8kW		960x313x714 (+150) mm	170/190 kg
9155-15-NT-M	15 kVA / 13.5 kW		960x313x714 (+150) mm	170/190 kg
9155-20-NT-M	20 kVA / 18 kW		1745x575x762 (+200) mm	450 kg
9155-30-NT-M	30 kVA / 27 kW		1745x575x762 (+200) mm	450 kg
External battery cabinets				
9X55-BAT-M-64x7Ah	2x32x1 Ah	See runtime specifications	880x347x718 (+150) mm	217/237 kg
9X55-BAT-M-96x7Ah	3x32x7 Ah	See runtime specifications	1278x347x718 (+150) mm	323/348 kg
9X55-BAT-M-1x24Ah (30 kVA)	1x36x24 Ah	See runtime specifications	1745x575x762 (+200) mm	550 kg
9X55-BAT-M-2x24Ah (30 kVA)	2x36x24 Ah	See runtime specifications	1745x575x762 (+200) mm	970 kg