

MODEL	DSS010TM	DSS015TM	DSS020TM	DSS010TT	DSS015TT	DSS020TT
Nominal Power	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
MAIN INPUT						
Grid system	3PHS+N+PE / 1F+N+PE			3PHS+N+PE		
Rated voltage / Frequency	380/400/415 VAC (3ϕ), 220/230/240 VAC (1ϕ), 50/60 Hz			380/400/415 VAC, 50/60 Hz		
Voltage range	320~480 VAC full load, 240~480 VAC at 50% load (3ϕ) 184~276 VAC full load, 140~276 VAC at 50% load (1ϕ)			320~480 VAC full load 240~480 VAC at 50% carico		
Frequency range	40~72 Hz (rectifier operating range)					
Power factor	≥0.99					
Current THDi	≤2.5% (1ϕ), ≤3% (3ϕ)			≤3%		
BYPASS INPUT						
Grid system	1F+N+PE			3PHS+N+PE		
Rated voltage / Frequency	220/230/240 VAC, 50/60 Hz			380/400/415 VAC, 50/60 Hz		
Voltage range	230 V, -22% ~ +15%					
Frequency range	±5 (selectable from ±0.10 to ±10)					
Bypass overload	110% long term operation 110-125%, 60 minutes 125-150%, 10 minutes 150-200%, 1 minute >200%, 20 seconds					
OUTPUT						
Grid system	1PH+N+PE			3PHS+N+PE		
Rated voltage / Frequency	200 V (Pn-11%), 208 V (Pn-8%), 220 V (Pn-2%), 230 V, 240 V; 50/60 Hz			380 V (Pn-2%), 400 V, 415 V; 50/60 Hz		
Power factor	1					
Voltage THDv	<1% (linear load) ≤1.5% (non-linear load)					
Voltage precision	±0.5%					
Transient response	±1% for step resistive load (20->100% e 100->20%)					
Transient recovery	<20 ms for step resistive load (20->100% e 100->20%)					
Inverter overload	103% long term operation 103-110%, 60 minutes 110-125%, 10 minutes 125-150%, 1 minute 150-200%, 0.5 seconds >200%, 0.2 seconds					
Frequency regulation	50/60 Hz ±0.01% (battery mode)					
Synchronized range	Default ±5%; (selectable ±0.10% ~ ±10%)					
Synchronized slew rate	Selectable (0.5 Hz/S ~ 2 Hz/S), default 1 Hz/S					
Crest Factor	3:1					
BATTERIES						
Battery type	VRLA / AGM sealed lead acid batteries, open-vented batteries, NiCd batteries, lithium batteries					
Number of batteries in series	Default 40 (20+20), selectable from 15 to 22 (if <20 a power derating must be applied)					
Nominal voltage	±240 VDC					
Batteries arrangement	Internal and/or external					
Maximum number and capacity of internal batteries	1 x 40 12 V / 9 Ah					
External battery capacity	Selectable					
SYSTEM						
Efficiency - Normal operation	95.8	96.0	95.7	96.1	96.2	95.9
Efficiency - Eco Mode operation	99.0	98.9	98.9	99.3	99.5	99.5
Efficiency - Battery operation	95.9	95.9	95.9	95.9	96.4	96.4
Display	LED + LCD Touch Screen					
Protection degree	IP20					
Interface	Standard equipment: RS232, USB, dry contacts, Cold Start, EPO Optional: RS485, SNMP, parallel kit					
ENVIRONMENT						
Operating temperature	0 ~ 40 °C					
Storage temperature	-25 ~ 60 °C (UPS), -15 ~ 40 °C (batteries)					
Relative humidity	5 ~ 95% (no condensing)					
Noise (dBA at 1 meter far) - 100% load / 50% load	<52 / <45	<56 / <50	<56 / <50	<52 / <45	<56 / <50	<56 / <50
Altitude	<1000 m; load derated 0.5% per 100 m from 1000 ~ 4000 m					
MECHANICAL DATA						
Dimensions W*D*H (mm)	280*840*700					
Weight (Kg)	48	50	52	48	50	52
Colour	RAL 7016					

Note: technical specifications and data could be changed without notification