

MODEL	DSY010TM	DSY015TM	DSY020TM	DSY010TT	DSY015TT	DSY020TT	DSY030TT	DSY040TT
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	30 kVA / 30 kW	40 kVA / 40 kW
MAIN INPUT								
Grid system	3F+N+PE / 1F+N+PE			3F+N+PE				
Rated voltage / Frequency	380/400/415 VAC (3 ϕ), 220/230/240 VAC (1 ϕ), 50/60 Hz			380/400/415 VAC, 50/60 Hz				
Voltage range	320~480 VAC full load, 240~480 VAC at 50% load (3 ϕ) 184~276 VAC full load, 140~276 VAC at 50% load (1 ϕ)			320~480 VAC full load 240~480 VAC at 50% load				
Frequency range	40~72 Hz (rectifier operating range)							
Power factor	0.99							
Current THDi	\leq 2.5% (1 ϕ), \leq 3% (3 ϕ)			\leq 3%				
BYPASS INPUT								
Grid system	1F+N+PE			3F+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	40~72 Hz							
Bypass overload				110% long term operation 110-125%, 60 minutes 125-150%, 10 minutes 150-200%, 1 minute >200%, 20 seconds				
OUTPUT								
Rated voltage / Frequency	200 V (Pn-11%), 208 V (Pn-8%), 220 V (Pn-2%), 230 V, 240 V; 50/60 Hz							
Power factor	1							
Sinewave	Pure sine wave							
Voltage THDv	<1% (linear load) \leq 1.5% (non-linear load)							
Voltage precision	\pm 0.5% (0-100% linear load)							
Transient response	\pm 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 \pm 0.01% (battery mode)							
Synchronized range	Default \pm 5%; (selectable \pm 0.10% ~ \pm 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	\pm 240 VDC							
Batteries arrangement	Internal and/or external							
Maximum number and capacity of internal batteries	2 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	96.1	
Efficiency - Eco Mode operation	99.0	98.9		99.3	99.5		99.6	99.8
Efficiency - Battery operation	95.9			96.4			96.5	96.5
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)	<55	<60	<55	<60		<62		
Altitude	<1000 m; load derated 0.5% per 100 m from 1000 ~ 4000 m							
MECHANICAL DATA								
Dimensions W*D*H (mm)	380*850*1025							
Weight (Kg)	72	74	76	72	74	76	78	82
Colour	RAL 7016							

Note: technical specifications and data could be changed without notification

* IP21/31 protection degree and Dust Filter are available on request for DISCOVERY EXTRA version (DSX)