DSM-H Serie

Mono Block UPS
100-300kW

The DSM-H family of SCU is a last generation Mono Block UPS design based on three stage IGBT technology.
Produced under ISO9001 and meeting the VFI-SS-111 CEI and EN62040 standards.

The DSM-H series is used in those applications where efficiency is from the upmost importance and the requested power is known and not expected to change.
With an on-line efficiency of 97% and the ability to run in ECO mode on 99,5% efficiency the DSM-H is bringing protection and energy consumption to a new height.

DSM-H will optimize the quality of the power towards these loads and will keep the power running during complete outages of the grid power.

With single units size between 100-300kW and a pF=1 the DSM-H series is covering a wide range of power applications. On top of that you are able to parallel 8 DSM-H units of the same size creating a possible maximum end power of 2,4 MW.

Communication is everything these days so DSM-A series is standard equipped with a RS232 port, RS485 port running MODBUS and an card slot for GENEREX interfacing cards (SNMP, MODBUS, etc.).

Via the separate DRY-contact interface board you will have the ability to connect and External By-Pass signal and EPO switch.

	DSM-H 100	DSM-H 120	DSM-H 160	DSM-H 200	DSM-H 250	DSM-H 300
Mechanical info						
Dimensions lxwxh in mm	558x838x1804	558x838x1804	800x838x1804	800x838x1804	1035x838x1804	1035x838x1804
Weight in kg						
Cabinet	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Noise at 1 metre in dBA	62	62	63	63	64	64
Working temp. Celsius	20-40	20-40	20-40	20-40	20-40	20-40
Relative Humidity	95% non condensing	95% non condensing	95% non condensing	95% non condensing	95% non condensing	95% non condensing
Cooling	forced air reg. speed	forced air reg. speed	forced air reg. speed	forced air reg. speed	forced air reg. speed	forced air reg. speed
INPUT						
Input voltage	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V
Nominal input frequency	50 or 60Hz	50 or 60Hz	50 or 60Hz	50 or 60Hz	50 or 60Hz	50 or 60Hz
Input frequency range	50-70Hz	50-70Hz	50-70Hz	50-70Hz	50-70Hz	50-70Hz
Input Power Factor	0,99	0,99	0,99	0,99	0,99	0,99
Soft Start	0-100% in 30 sec	0-100% in 30 sec	0-100% in 30 sec	0-100% in 30 sec	0-100% in 30 sec	0-100% in 30 sec
Input current distportion	THDi ≤ 2,5%	THDi ≤ 2,5%	THDi ≤ 2,5%	THDi ≤ 2,5%	THDi ≤ 2,5%	THDi ≤ 2,5%
OUTPUT						
Nominal power kVA	100	120	160	200	250	300
Nominal power kW	100	120	160	200	250	300
Nominal voltage	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V	3ph+N 380/400/415V
Static voltage stability	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
Dynamic voltage stability	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%
Crest Factor	3:1	3:1	3:1	3:1	3:1	3:1
Volt. distortion linear load	≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%
Frequency	50 or 60Hz	50 or 60Hz	50 or 60Hz	50 or 60Hz	50 or 60Hz	50 or 60Hz
Frequency stability	0,01%	0,01%	0,01%	0,01%	0,01%	0,01%
BATTERY						
String Voltage	768	768	768	768	768	768
Number of 12VDC blocks	64	64	64	64	64	64
Max. charging current	25% nominal power	25% nominal power	25% nominal power	25% nominal power	25% nominal power	25% nominal power
Charging Profile	DIN 41733 temp.Cmp.	DIN 41733 temp.Cmp.	DIN 41733 temp.Cmp.	DIN 41733 temp.Cmp.	DIN 41733 temp.Cmp.	DIN 41733 temp.Cmp.
General						
Overload	125%-10min 150%-60 sec.	125%-10min 150%-60 sec.	125%-10min 150%-60 sec.	125%-10min 150%-60 sec.	125%-10min 150%-60 sec.	125%-10min 150%-60 sec.
Efficiency on-line	97%	97%	97%	97%	97%	97%
ECO mode	99,50%	99,50%	99,50%	99,50%	99,50%	99,50%
Back feed protection	standard	standard	standard	standard	standard	standard
Communication						
Serial	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485
MODBUS	yes	yes	yes	yes	yes	yes
Dry Contacts	yes	yes	yes	yes	yes	yes
Optional SNMP	GENEREX	GENEREX	GENEREX	GENEREX	GENEREX	GENEREX
Standards						
Low Voltage directive LV2006/95/CE	YES	YES	YES	YES	YES	YES
EMC 2004/108/CE	YES	YES	YES	YES	YES	YES
Safety IEC and EN62040-1	YES	YES	YES	YES	YES	YES
EMC IEC and EN62040-2 C2	YES	YES	YES	YES	YES	YES
IEC62040-3	YES	YES	YES	YES	YES	YES