DSM-A Serie

Mono Block UPS
40-200 kVA

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

The DSM-A series is mostly installed as protection of IT Infrastructure, Industrial production lines, lighting and telecommunication systems were the requested power is known and not expected to change.

DSM-A 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 40-200kVA and a pF=0,9 the DSM-A series is covering a wide range of power applications. On top of that you are able to parallel 8 DSM-A units of the same size creating a possible maximum end power of 1,6MVA.

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-A 40	DSM-A 60	DSM-A 80	DSM-A 100	DSM-A 120	DSM-A 160	DSM-A 200
Mechanical info							
Dimensions lxwxh in mm	390x900x900	410x830x1510	410x830x1510	410x830x1510	800x840x1800	800x840x1800	800x840x1800
Weight in kg	90	240	270	290	480	540	590
Cabinet	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Noise at 1 metre in dBA	58	65	65	65	66	66	66
Working temp. Celsius	20-40	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	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	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	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	50 or 60Hz
Input frequency range	50-70Hz	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	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	0-100% in 30 sec
Input current distortion	THDi ≤ 3%	THDi ≤ 3%	THDi ≤ 3%	THDi ≤ 3%	THDi ≤ 3%	THDi ≤ 3%	THDi ≤ 3%
OUTPUT							
Nominal power kVA	40	60	80	100	120	160	200
Nominal power kW	36	54	72	90	108	144	180
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	3ph+N 380/400/415V
Static voltage stability	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
Dynamic voltage stability	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%
Crest Factor	3:1	3:1	3:1	3:1	3:1	3:1	3:1
Volt. distortion linear load	≤ 1%	≤ 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	50 or 60Hz
Frequency stability	0,01%	0,01%	0,01%	0,01%	0,01%	0,01%	0,01%
BATTERY							
String Voltage	720VDC	720VDC	720VDC	720VDC	720VDC	720VDC	720VDC
Number of 12VDC blocks	60	60	60	60	60	60	60
Max. charging current	25% nominal power	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.	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.	125%-10min 150%-60 sec.
Efficiency on-line	95,50%	95,50%	95,50%	95,50%	95,50%	95,50%	95,50%
ECO mode	no	no	no	no	no	no	no
Back feed protection	optional	optional	optional	optional	optional	optional	optional
Communication							
Serial	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485
MODBUS	yes	yes	yes	yes	yes	yes	yes
Dry Contacts	yes	yes	yes	yes	yes	yes	yes
Optional SNMP	GENEREX	GENEREX	GENEREX	GENEREX	GENEREX	GENEREX	GENEREX
Standards							
Low Voltage directive LV2006/95/CE	YES	YES	YES	YES	YES	YES	YES
EMC 2004/108/CE	YES	YES	YES	YES	YES	YES	YES
Safety IEC and EN62040-1	YES	YES	YES	YES	YES	YES	YES
EMC IEC and EN62040-2 C2	YES	YES	YES	YES	YES	YES	YES
IEC62040-3	YES	YES	YES	YES	YES	YES	YES