

Technical Data

Modbus UID 245

Display Name	0-based Addr	Type	9155 15kW	93E 30kW	93PM 50kW	93PM 60kW	93PM G2 200kW	BladeUPS	9155 30kW	9355	9395	9395P
UPS On Battery	0	Discrete	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Efficiency/ESS	3	Discrete	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
System On Bypass	9	Discrete	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
System Normal	10	Discrete	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Vab Output	0	Register	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vbc Output	1	Register	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Vca Output	2	Register	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Vab Input	3	Register	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vbc Input	4	Register	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Vca Input	5	Register	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Vab Bypass	9	Register	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Vbc Bypass	10	Register	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Vca Bypass	11	Register	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
System Output On	15	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IinA	18	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IinB	19	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IinC	20	Register	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Watts Out	21	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Watts In	22	Register	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
VA Out	23	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VA In	24	Register	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Output PF	25	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Input PF	26	Register	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Output Frequency	27	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Input Frequency	28	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bypass Frequency	30	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Battery Current	32	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Voltage	33	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Capacity Remaining	34	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Time Remaining	35	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Van Bypass	53	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Vbn Bypass	54	Register	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Vcn Bypass	55	Register	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Van Input	56	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vbn Input	57	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vcn Input	58	Register	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Ambient Temperature	62	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IoutA	65	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IoutB	66	Register	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IoutC	67	Register	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Van Output	78	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vbn Output	79	Register	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vcn Output	80	Register	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
IoutN	81	Register	No	No	Yes	Yes	No	No	No	No	Yes	Yes
Inverter AC Over Voltage	143	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Inverter AC Under Voltage	144	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inverter Under Or Over Frequency	145	Register	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Bypass AC Over Voltage	146	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Bypass AC Under Voltage	147	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Bypass Under Or Over Frequency	148	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Input AC Over Voltage	149	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Input AC Under Voltage	150	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Input Under Or Over Frequency	151	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Output AC Over Voltage	152	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Output AC Under Voltage	153	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Output Under Or Over Frequency	154	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Remote Emergency Power Off	155	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Building Alarm 6	157	Register	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Building Alarm 5	158	Register	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Building Alarm 4	159	Register	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Building Alarm 3	160	Register	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Building Alarm 2	161	Register	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Building Alarm 1	162	Register	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Static Switch Over Temperature	163	Register	No	No	No	No	No	No	No	No	No	Yes
Charger Over Temperature	164	Register	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Charger Tripped	165	Register	No	No	No	No	No	No	No	No	Yes	Yes
Charger Over Voltage Or Current	166	Register	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Inverter Over Temperature	167	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Output Overload	168	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rectifier Input Over Current	169	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Inverter Output Over Current	170	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
DC Link Over Voltage	171	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DC Link Under Voltage	172	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Check Rectifier	173	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Check Inverter	174	Register	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Check Battery Switchgear	175	Register	Yes	No	No	No	No	No	No	No	Yes	Yes
Check Bypass Switchgear	176	Register	No	No	No	No	No	No	Yes	Yes	Yes	Yes

Display Name	0-based Addr	Type	9155 15kW	93E 30kW	93PM 50kW	93PM 60kW	93PM G2 200kW	BladeUPS	9155 30kW	9355	9395	9395P
Check Charger	177	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Ramp Up Failed	178	Register	No	No	No	No	No	No	No	No	No	No
Check Static Switch	179	Register	No	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Bypass Uncalibrated	181	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Input Uncalibrated	182	Register	No	No	No	No	No	No	No	No	Yes	Yes
Output Uncalibrated	183	Register	Yes	No	No	No	No	No	No	No	Yes	Yes
Inverter Uncalibrated	184	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
DC Voltage Uncalibrated	185	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Output Current Uncalibrated	186	Register	No	No	No	No	No	No	No	No	Yes	Yes
Rectifier Current Uncalibrated	187	Register	No	No	No	No	No	No	No	No	Yes	Yes
Battery Current Uncalibrated	188	Register	No	No	No	No	No	No	No	No	Yes	Yes
Inverter On Off Stat Failure	189	Register	No	No	No	No	No	No	No	No	No	No
Battery Current Limit	190	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Inverter Startup Failure	191	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Check Battery Ground	194	Register	No	No	No	No	No	No	No	No	Yes	Yes
Non-Volatile Memory Failure	196	Register	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Shutdown Imminent	198	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Voltage Low	199	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Utility Out Of Limits	200	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Output Short Circuit	201	Register	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Utility Not Present	202	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AD Error	205	Register	No	No	No	No	No	No	No	No	No	No
Internal Communication Failure	206	Register	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Rectifier Failed Self-Test	207	Register	No	No	No	No	No	No	No	No	Yes	Yes
Input Line Voltage Loss	210	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Voltage High	211	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply Over Temperature	212	Register	No	No	No	No	No	No	No	No	No	No
Check Power Supply	213	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Check Logic Power Supply	214	Register	No	No	No	No	No	No	No	No	No	No
Check Secondary Power Supply	215	Register	No	No	No	No	No	No	No	No	No	No
Heatsink Over Temperature	216	Register	No	No	No	No	No	No	No	Yes	Yes	Yes
Check Heatsink Temperature Sensor	217	Register	No	No	No	No	No	No	No	No	No	No
Rectifier Current Over 125 Percent	218	Register	Yes	No	No	No	No	No	No	No	Yes	Yes
Rectifier Tripped	219	Register	No	No	No	No	No	No	No	No	Yes	Yes
Program Stack Error	221	Register	No	No	No	No	No	No	No	No	No	No
Inverter Control Board Failed Self-Test	222	Register	No	No	No	No	No	No	No	No	Yes	Yes
Inverter AD Converter Self-Test Failed	223	Register	No	No	No	No	No	No	No	No	No	No
RAM Device Self-Test Failure	224	Register	No	No	No	No	No	No	No	No	No	No
Inverter CPU Self-Test Failed	227	Register	No	No	No	No	No	No	No	No	No	No
Front Panel Self-Test Failure	229	Register	No	No	No	No	No	No	No	No	No	No
Output DC Over Voltage	232	Register	No	No	No	No	No	No	No	No	Yes	Yes
Input Phase Rotation Error	233	Register	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Inverter Ramp Up Test Failed	234	Register	No	No	No	No	No	No	No	No	No	No
Phase A Inverter Current Limit	245	Register	Yes	No	No	No	No	No	No	No	Yes	Yes
Phase B Inverter Current Limit	246	Register	No	No	No	No	No	No	No	No	Yes	Yes
Phase C Inverter Current Limit	247	Register	No	No	No	No	No	No	No	No	Yes	Yes
Indicator - Bypass Not Available	248	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rectifier Output On	249	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Breaker	250	Register	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Inverter Output Breaker-Contactor	251	Register	No	No	No	No	No	Yes	No	No	Yes	Yes
Bypass Breaker-Contactor	252	Register	No	No	Yes	Yes	No	No	No	No	No	No
Inverter Over Temperature Trip	254	Register	No	No	No	No	No	No	Yes	Yes	Yes	Yes
DCUV While Charger Is Full On	259	Register	No	No	No	No	No	No	No	No	No	No
Inverter Voltage Bias Error	260	Register	No	No	No	No	No	No	No	No	No	No
Multi Phase Rotation	261	Register	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Bypass Phase Rotation	262	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Check System Interface Board	263	Register	No	No	No	No	No	No	No	No	No	No
Check Parallel Board	264	Register	No	No	No	No	No	No	No	No	No	No
Phase A Loss Of Load Sharing	265	Register	No	No	No	No	No	No	No	No	No	No
Phase B Loss Of Load Sharing	266	Register	No	No	No	No	No	No	No	No	No	No
Phase C Loss Of Load Sharing	267	Register	No	No	No	No	No	No	No	No	No	No
Battery Totally Discharged	269	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Inverter Phase Bias Error	270	Register	No	No	No	No	No	No	No	No	No	No
Inverter DC Bias Error	271	Register	No	No	No	No	No	No	No	No	No	No
Large Charger Input Current	273	Register	No	No	No	No	No	No	No	No	Yes	Yes
Inverter Voltage Too Low For Ramp Level	274	Register	No	No	No	No	No	No	No	No	No	No
System Not Redundant	275	Register	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Loss Of Sync Bus	276	Register	No	No	No	No	No	No	No	No	No	No
Rectifier Switchgear Shunt Tripped	277	Register	No	No	No	No	No	No	No	No	No	No
Loss Of Charger Sync	278	Register	No	No	No	No	No	No	No	No	Yes	Yes
Inverter Low Level Test Timeout	279	Register	No	No	No	No	No	No	No	No	No	No
Output Switchgear Open	280	Register	No	No	No	No	No	No	No	No	No	Yes
Inverter Output On	282	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Charger On	283	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bypass Power Loss	285	Register	No	No	No	No	No	No	No	No	Yes	Yes
Check Battery	292	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Check Output Switchgear	300	Register	No	No	No	No	No	No	No	No	Yes	Yes
Phase A Overload	302	Register	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Phase B Overload	303	Register	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Phase C Overload	304	Register	No	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Phase A Overload (High Level/Level 2)	305	Register	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Phase B Overload (High Level/Level 2)	306	Register	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Phase C Overload (High Level/Level 2)	307	Register	No	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Phase A Overload (Extreme Level/Level 3)	308	Register	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Phase B Overload (Extreme Level/Level 3)	309	Register	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Phase C Overload (Extreme Level/Level 3)	310	Register	No	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Display Name	0-based Addr	Type	9155 15kW	93E 30kW	93PM 50kW	93PM 60kW	93PM G2 200kW	BladeUPS	9155 30kW	9355	9395	9395P
Check Inverter Temperature Sensor	320	Register	No	No	No	No	No	No	No	No	Yes	Yes
Close Bypass Switchgear	328	Register	No	No	No	No	No	No	No	No	Yes	Yes
Check Bypass	331	Register	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Battery Test Failed	334	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Check Fuse	335	Register	No	No	No	No	No	No	No	No	No	No
Check Fan	336	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Site Wiring Fault	337	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Check Backfeed Switchgear	338	Register	No	No	No	No	No	No	No	No	No	No
Battery Disconnected	342	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UPS Cabinet Over Temperature	343	Register	No	No	No	No	No	No	No	No	No	No
Transformer Over Temperature	344	Register	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Ambient Under Temperature	345	Register	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Ambient Over Temperature	346	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cabinet Door Open	347	Register	No	No	No	No	No	No	No	No	No	No
Cabinet Door Open With Voltage Present	348	Register	No	No	No	No	No	No	No	No	No	No
Automatic Shutdown Pending	349	Register	No	No	No	No	No	No	No	No	No	No
Unable To Charge Battery	351	Register	Yes	No	No	No	No	No	No	No	Yes	Yes
Startup Failed - Check EPO Reset	352	Register	No	No	No	No	No	No	No	No	No	No
Automatic Startup Pending	353	Register	No	No	No	No	No	No	No	No	No	No
Check Modem	354	Register	No	No	No	No	No	No	No	No	No	No
Check Input Switchgear	360	Register	No	No	No	No	No	No	No	No	Yes	Yes
Autocalibration Failed	362	Register	No	No	No	No	No	No	No	No	No	No
Selective Trip Of Module	363	Register	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Inverter Output Failure	364	Register	No	No	No	No	No	No	No	No	No	No
Abnormal Output Voltage At Startup	365	Register	No	No	No	No	No	No	No	No	No	No
Rectifier Over Temperature	366	Register	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Configuration Error	367	Register	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy Loss Due To Overload	368	Register	No	No	No	No	No	No	No	No	No	No
System Notice Active	371	Register	No	No	Yes	Yes	No	Yes	No	No	Yes	Yes
System Alarm Active	372	Register	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Current Balance Failure	374	Register	No	No	No	No	No	No	No	No	No	No
Inverter Phase Rotation	381	Register	No	No	No	No	No	No	No	No	Yes	Yes
Neutral Current Limit	389	Register	No	No	No	No	No	No	No	No	Yes	Yes
Close Battery Switchgear	390	Register	No	No	No	No	No	No	No	No	Yes	Yes
UPS On Generator	391	Register	No	No	No	No	No	Yes	No	No	Yes	Yes
Rectifier Over Temperature Trip	392	Register	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Phase A Rectifier Current Limit	402	Register	No	No	No	No	No	No	No	No	Yes	Yes
Phase B Rectifier Current Limit	403	Register	No	No	No	No	No	No	No	No	Yes	Yes
Phase C Rectifier Current Limit	404	Register	No	No	No	No	No	No	No	No	Yes	Yes
Ground Fault Alarm	508	Register	No	No	No	No	No	No	No	No	Yes	Yes
Call User	526	Register	No	No	No	No	No	Yes	No	No	Yes	Yes
Major Alarm	527	Register	No	No	Yes	Yes	No	Yes	No	No	Yes	Yes
Schedule Service	528	Register	No	No	Yes	Yes	No	Yes	No	No	Yes	Yes
Service Required	529	Register	No	No	Yes	Yes	No	Yes	No	No	Yes	Yes
Battery Voltage Extremely Low	530	Register	No	No	Yes	Yes	No	Yes	No	No	Yes	Yes